MDSAP
MEDICAL DEVICE SINGLE AUDIT PROGRAM

TÜV SÜD America

CERTIFICATE

No. QS6 071067 0007 Rev. 00

Certificate Holder: **Liofilchem S.r.l.**
Via Scozia
64026 Roseto degli Abruzzi (TE)
ITALY

Certification Mark:

Scope of Certificate: **Design, Development, Manufacture and Distribution of In-Vitro Diagnostic Medical Devices: Microbial Identification and Antimicrobial Susceptibility Testing Systems, Antibiotic Minimum Inhibitory Concentration Test Strips, Antibiotic Discs, Dehydrated and Ready-To-Use Culture Media, Plasma Protein Determination Kits**

Standard(s): **ISO 13485:2016**

Regulatory Authority(ies): **Australia TGA, Brazil ANVISA, Health Canada, USA FDA, MHLW / PMDA. See attached for listing of specific regulatory requirements.**

The Certification Body of TÜV SÜD America Inc. certifies that the quality management system of the manufacturer listed above has been audited against the stated criteria and found to conform to those criteria for the scope of certification listed. Validity of this certificate can be obtained by visiting the website https://www.tuev-sued.de/product-testing/certificates

TÜV SÜD America Inc. is an MDSAP Recognized Auditing Organization.

DUNS No: **43-534-2134**

Effective Date: **2019-03-11**

Expiry Date: **2022-03-10**

Date of Issue: 2019-03-18

(Arie Henkin)
Manager, Certification Body MHS
TÜV SÜD America Inc. • 10 Centennial Drive Ste 207 • Peabody, MA 01960 USA • www.tuvsud.com

TÜV®

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT
TÜV SÜD

US-Letter / 07.17

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD Italia

CERTIFICATO

Nr. 50 100 11497 - Rev. 003

Si attesta che / *This is to certify that*

IL SISTEMA QUALITÀ DI
THE QUALITY SYSTEM OF

LIOFILCHEM S.r.l.

SEDE LEGALE E OPERATIVA:
REGISTERED OFFICE AND OPERATIONAL SITE:

VIA SCOZIA SNC - ZONA INDUSTRIALE
I-64026 ROSETO DEGLI ABRUZZI (TE)

SEDE OPERATIVA:
OPERATIONAL SITE:

CONTRADA PIANE VOMANO – TRAVERSA DI VIA GRECIA
I-64026 ROSETO DEGLI ABRUZZI (TE)

È CONFORME AI REQUISITI DELLA NORMA
HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF

UNI EN ISO 9001:2015

QUESTO CERTIFICATO È VALIDO PER IL SEGUENTE CAMPO DI APPLICAZIONE
THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE

Progettazione e sviluppo, produzione e commercializzazione di dispositivi medico diagnostici in-vitro: terreni di coltura per batteriologia, sistemi di identificazione e antibiogramma, kit per la determinazione di plasmaproteine (IAF 12, 29)

Design and development, production and sale of in-vitro diagnostic medical devices: culture media for bacteriology, identification and susceptibility testing systems, kits for plasma protein determination (IAF 12, 29)

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

SGQ N° 049A

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Per l'Organismo di Certificazione
For the Certification Body
TÜV Italia S.r.l.

Validità / *Validity*

Dal / From: **2019-02-11**

Al / To: **2022-02-10**

Andrea Coscia
Direttore Divisione Business Assurance

Data emissione / *Issuing Date*
2019-02-11

PRIMA CERTIFICAZIONE / *FIRST CERTIFICATION:* 2012-09-25

"LA VALIDITÀ DEL PRESENTE CERTIFICATO È SUBORDINATA A SORVEGLIANZA PERIODICA A 12 MESI E AL RIESAME COMPLETO DEL SISTEMA DI GESTIONE AZIENDALE CON PERIODICITÀ TRIENNALE"

"THE VALIDITY OF THE PRESENT CERTIFICATE DEPENDS ON THE ANNUAL SURVEILLANCE EVERY 12 MONTHS AND ON THE COMPLETE REVIEW OF COMPANY'S MANAGEMENT SYSTEM AFTER THREE-YEARS"

CERTIFICATO

N° Q5 071067 0006 Rev. 00

Titolare del certificato: **Liofilchem S.r.l.**
Via Scozia
64026 Roseto degli Abruzzi (TE)
ITALIA

Stabilimento(i):
Liofilchem S.r.l.
Via Scozia,64026 Roseto degli Abruzzi (TE), ITALIA

Liofilchem S.r.l.
Contrada Piane Vomano,Traversa di Via Grecia,
64026 Roseto degli Abruzzi (TE), ITALIA

Marchio di certificazione:

Campo di applicazione: **Progettazione e sviluppo, produzione e commercializzazione di dispositivi medico diagnostici in-vitro: terreni di coltura per batteriologia, sistemi di identificazione e antibiogramma, kit per la determinazione di plasmaproteine. Distribuzione di altri dispositivi medico diagnostici in-vitro**

Norma(e) applicata(e): EN ISO 13485:2016
Dispositivi medici – Sistemi di gestione per la qualità - Requisiti per scopi regolamentari
(ISO 13485:2016)
DIN EN ISO 13485:2016

L'Organismo di Certificazione TÜV SÜD Product Service GmbH certifica che la società sopramenzionata ha istituito e mantiene un sistema di gestione qualità conforme ai requisiti della(e) norma(e) elencata(e). Vedere anche note sul retro.

N° del rapporto: ITA1070742

Valido da: 2018-12-19
Valido fino al: 2021-12-18

Data, 2018-12-19

Stefan Preiß

Pagina 1 di 1
Traduzione per scopi informativi. La sola versione inglese (tedesca) è legalmente impegnativa.

TÜV®

DAkkS Deutsche Akkreditierungsstelle D-ZM-11321-01-00

Product Service

Certificate

No. Q5 071067 0006 Rev. 00

Holder of Certificate: **Liofilchem S.r.l.**
Via Scozia
64026 Roseto degli Abruzzi (TE)
ITALY

Facility(ies):
Liofilchem S.r.l.
Via Scozia, 64026 Roseto degli Abruzzi (TE), ITALY

Liofilchem S.r.l.
Contrada Piane Vomano, Traversa di Via Grecia, 64026 Roseto degli Abruzzi (TE), ITALY

Certification Mark:

Scope of Certificate: **Design and development, production and sale of in-vitro diagnostic medical devices: culture media for bacteriology, identification and susceptibility testing systems, kits for plasma protein determination. Distribution of other in-vitro diagnostic medical devices**

Applied Standard(s): EN ISO 13485:2016
Medical devices - Quality management systems - Requirements for regulatory purposes
(ISO 13485:2016)
DIN EN ISO 13485:2016

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). See also notes overleaf.

Report No.: ITA1070742

Valid from: 2018-12-19
Valid until: 2021-12-18

Date, 2018-12-19

Stefan Preiß

Page 1 of 1
TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®

Liofilchem®

DICHIARAZIONE DI CONFORMITÀ CE / EC DECLARATION OF CONFORMITY

DICHIARAZIONE DI CONFORMITÀ CE

La società Liofilchem® S.r.l., con Sede Legale in Via Scozia, 64026 Roseto degli Abruzzi (TE) Italia, in qualità di fabbricante del dispositivo medico-diagnostico *in vitro* elencato nella tabella allegata Revisione 32.1 del 07.06.2017

dichiara sotto la propria responsabilità

1. che il dispositivo sopra indicato soddisfa tutte le disposizioni applicabili della Direttiva 98/79/CE (Allegato III) recepita nella Legislazione Italiana dal Decreto Legislativo n° 332 del 8 settembre 2000;
2. che il dispositivo in oggetto non è incluso nell'Allegato II, lista A e B della Direttiva 98/79/CE
3. che la documentazione tecnica di cui all'allegato III della direttiva Direttiva 98/79/CE è a disposizione delle autorità nazionali presso la sua sede e sarà conservata per 5 anni dall'ultima data di fabbricazione del prodotto;
4. che il processo di fabbricazione segue adeguati principi di assicurazione della qualità;
5. di aver attivato e di mantenere aggiornato, un sistema di sorveglianza post-produzione per il monitoraggio dei prodotti;
6. che il dispositivo in oggetto è stato messo in commercio munito di marcatura CE.

EC DECLARATION OF CONFORMITY

The company Liofilchem® S.r.l., registered office in Via Scozia, 64026 Roseto degli Abruzzi (TE) Italy, as a manufacturer of the in vitro medical-diagnostic device listed in the attached table, Revision 32.1 of 07.06.2017

hereby certifies under its own responsibility

1. that the above mentioned device complies with all the applicable provisions of Directive 98/79/EC (Annex III) and its relevant transposition into national law;
2. the above mentioned is not included in Annex II , List A and B of Directive 98/79/EC;
3. that the technical documentation referred to at Annex III of the Directive 98/79/EC is available for the national authorities in its facility and that this documentation shall be kept for 5 years after the last product has been manufactured;
4. that the manufacturing process follows suitable principles of quality assurance;
5. that, has implemented and keep up to date, a post-production surveillance system for monitoring the products;
6. that the device in question, was introduced into the market provided with CE mark.

Roseto, 07.06.2017

Direttore Tecnico/ Technical Director
Dott. Silvio Brocco

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS

Rev. 32.1 del 07.06.2017

10002	DNA AGAR + BLU DI TOLUIDINA
10004	CLED ANDRADE AGAR
10004*	CLED ANDRADE AGAR
10005	MAC CONKEY SORBITOL AGAR
10005*	MAC CONKEY SORBITOL AGAR
10006	TRYPTIC SOY AGAR + 0,6% YEAST EXTRACT
10007	BACILLUS CEREUS AGAR (PEMBA)
10007*	BACILLUS CEREUS AGAR (PEMBA)
10013	DNase TEST AGAR
10013*	DNase TEST AGAR
10014	Purple Lactose Agar
10014*	Purple Lactose Agar
10017	CZAPEK DOX AGAR
10018	DRIGALSKY LACTOSE AGAR
10020	Baird Parker Agar
10020*	Baird Parker Agar
10021	BIGGY (NICKERSON) AGAR
10021*	BIGGY (NICKERSON) AGAR
10022	BRILLIANT GREEN AGAR
10022*	BRILLIANT GREEN AGAR
10023	Chocolate Agar
10023*	Chocolate Agar
10024	TRYPTOSE AGAR
10024*	TRYPTOSE AGAR
10025	COLUMBIA AGAR (Horse Blood 5%)
10025*	COLUMBIA AGAR (Horse Blood 5%)
10026	CLED AGAR
10026*	CLED AGAR
10027	BACILLUS CEREUS AGAR (Mossel)
10027*	BACILLUS CEREUS AGAR (Mossel)
10028	ISOSENSITEST AGAR
10028*	ISOSENSITEST AGAR
10029	MAC CONKEY AGAR
10029*	MAC CONKEY AGAR
10030	MANNITOL SALT AGAR
10030*	MANNITOL SALT AGAR
10031	MUELLER HINTON II AGAR
10031*	MUELLER HINTON II AGAR
10033	PSEUDOMONAS (CETRIMIDE) AGAR
10033*	PSEUDOMONAS (CETRIMIDE) AGAR
10035	SABOURAUD AGAR
10035*	SABOURAUD AGAR
10035S	SABOURAUD AGAR Irradiated
10036	S.S. AGAR
10036*	S.S. AGAR
10037	Tryptic Soy Agar
10037*	Tryptic Soy Agar
10037S	TRYPTIC SOY AGAR Irradiated
10039	ROGOSA AGAR
10039*	ROGOSA AGAR
10040	NEW YORK CITY AGAR
10040*	NEW YORK CITY AGAR
10041	LISTERIA PALCAM AGAR
10041*	LISTERIA PALCAM AGAR
10042	CRYSTAL VIOLET AGAR (Sheep Blood 5%)
10042*	CRYSTAL VIOLET AGAR (Sheod 5%)
10043	HEKTOEN ENTERIC AGAR
10043*	HEKTOEN ENTERIC AGAR
10044	NUTRIENT AGAR
10044*	NUTRIENT AGAR

10046	SERUM TELLURITE AGAR
10047	BISMUTH SULFITE AGAR
10047*	BISMUTH SULFITE AGAR
10048	E.M.B. LEVINE AGAR
10048*	E.M.B. LEVINE AGAR
10050	CAMPYLOBACTER AGAR (Sheep Blood 5%)
10050*	CAMPYLOBACTER AGAR (Sheep Blood 5%)
10051	Legionella BCYE Agar
10051*	Legionella BCYE Agar
10052	YERSINIA SELECTIVE AGAR
10052*	YERSINIA SELECTIVE AGAR
10053	WILKINS CHALGREEN AGAR
10053*	WILKINS CHALGREEN AGAR
10054	WURTZ LACTOSE AGAR
10054*	WURTZ LACTOSE AGAR
10056	X.L.D. AGAR
10056*	X.L.D. AGAR
10057	BILE AESCULIN AGAR
10057*	BILE AESCULIN AGAR
10058S	TRYPTIC SOY AGAR Irradiated -30 mL-
10060	BRAIN HEART INFUSION AGAR
10060*	BRAIN HEART INFUSION AGAR
10064	CHRISTENSEN UREA AGAR
10065	SCHAEDLER KKV AGAR(Sheep Blood 5%)
10065*	SCHAEDLER KKV AGAR(Sheep Blood 5%)
10067	SCHAEDLER KVN AGAR (Sheep Blood 5%)
10069	XLT 4 Agar
10069*	XLT 4 Agar
10074S	TRYPTIC SOY AGAR+NEUTRALIZING Irradiated
10078	MUELLER HINTON II MOD. AGAR
10078*	MUELLER HINTON II MOD. AGAR
10079	CASITONE AGAR
10079*	CASITONE AGAR
10080	HAEMOPHYLUS TEST AGAR
10080*	HAEMOPHYLUS TEST AGAR
10082	HELICOBACTER PYLORI AGAR
10082*	HELICOBACTER PYLORI AGAR
10090	M.R.S. Agar
10090*	M.R.S. Agar
10095	BRAIN HEART AGAR FOR HAEMOPHILUS
10129	MAC CONKEY AGAR MMG
10129*	MAC CONKEY AGAR MMG
10131	Mueller Hinton II Agar (Sheep Blood 5%)
10131*	Mueller Hinton II Agar (Sheep Blood 5%)
10132	Mueller Hinton Fastidious Agar (Horse blood 5% + 20 mg/L β-NAD)
10132*	Mueller Hinton Fastidious Agar (Horse blood 5% + 20 mg/L β-NAD)
10134	Legionella BMPA Agar
10141	SALMONELLA TEST AGAR
10141*	SALMONELLA TEST AGAR
10142	BLOOD AGAR (Sheep Blood 7%)(ISO 10560)
10142*	BLOOD AGAR (Sheep Blood 7%)(ISO 10560)
10143	Mueller Hinton Agar + 5 % Horse Blood Lysed
10145	CAMPYLOBACTER KARMALI AGAR
10146	CAMPYLOBACTER PRESTON AGAR
10148	CAMPYLOBACTER AGAR (Sheep Blood 10%)
10224	Baird Parker Agar
10225	LISTERIA PALCAM AGAR 140 mm
10231	MUELLER HINTON II AGAR 140 mm
10233	R.P.M.I. AGAR

10235	Sabouraud CAF Agar + Gentamicin
10235*	Sabouraud CAF Agar + Gentamicin
10235S	Sabouraud CAF Agar + Gentamicin Irradiated
10236	CLED AGAR 140 mm
10240	SCHAEDLER K AGAR (Sheep Blood 5%) 140mm
10241	SCHAEDLER KKV AGAR(Sheep blood 5%) 140mm
10242	SABOURAUD CAF AGAR 140 mm
10243	Sabouraud CAF Agar + Gentamicin 140mm
10244	DERMATOPHYTE (D.T.M.) AGAR 140 mm
10245	BRUCELLA BLOOD AGAR w HEMIN AND VITAMIN K1
10246	Chromatic™ MH
10247	Brucella Blood Agar with Hemin and Vitamin K1
10249	Purple Lactose Agar 140 mm
10334	NEOMYCIN BLOOD AGAR (Sheep Blood 5%)
10334*	NEOMYCIN BLOOD AGAR (Sheep Blood 5%)
10335	MUELLER HINTON CHOCOLATE AGAR
10353	BORDET GENGOU AGAR (Sheep Blood 15%)
10353*	BORDET GENGOU AGAR (Sheep Blood 15%)
10405	SCHAEDLER CNA AGAR (Sheep Blood 5%)
10407	VANCOMYCIN SCREEN AGAR
10408	WILKINS CHALGREN AGAR +5% SHEEP BLOOD
10409	CAMPYLOBACTER CCDA AGAR
10410	MUELLER HINTON AGAR w VITALEX
10411	BILE ESCULIN AZIDE AGAR w VANCOMYCIN
10412	Legionella BCYE Agar w/o Cysteine
10413	XLD Agar EP, USP, JP Formulation
10416	MIDDLEBROOK 7H11 AGAR
10424	Legionella BCYE Agar w Vancomycin + Colistin
10425	SCEDOSPORIUM SELECTIVE AGAR
10438	MacConkey Agar No.2
10438*	MacConkey Agar No.2
10439	Group A Selective Strep Agar w/ 5% Sheep Blood
10441	Sabouraud CAF Agar 50 mg
10445	Chocolate Agar w/ Bacitracin, Vancomycin, Clindamycin
10599	CHROMATIC™ MRSA
10600	OXACILLIN RESISTANCE STAPHYLOCOCCUS AGAR
10601	CHOCOLATE AGAR w/o VITOX
10602	CAMPYLOBACTER SKIRROW AGAR
10605	HELICOBACTER PYLORI EGG YOLK EMULSION AGAR
10620	O.A.LISTERIA
11023	CHOCOLATE BACITRACIN AGAR
11023*	CHOCOLATE BACITRACIN AGAR
11024	COLUMBIA CNA AGAR (Sheep Blood 5%)
11024*	COLUMBIA CNA AGAR (Sheep Blood 5%)
11025	COLUMBIA AGAR (Sheep Blood 5%)
11025*	COLUMBIA AGAR (Sheep Blood 5%)
11027	DESOXYCHOLATE AGAR
11027*	DESOXYCHOLATE AGAR
11030	ANAEROBIC AGAR
11033	PSEUDOMONAS ISOLATION AGAR
11033*	PSEUDOMONAS ISOLATION AGAR
11035	SABOURAUD CAF AGAR
11035*	SABOURAUD CAF AGAR
11035S	SABOURAUD CAF AGAR Irradiated
11037	TRYPTIC SOY AGAR (Sheep Blood 5%)
11037*	TRYPTIC SOY AGAR (Sheep Blood 5%)
11038	TRYPTIC SOY AGAR (Horse Blood 5%)
11038*	TRYPTIC SOY AGAR (Horse Blood 5%)
11040	THAYER MARTIN AGAR
11040*	THAYER MARTIN AGAR

11041	AZIDE AGAR (Sheep Blood 5%)
11041*	AZIDE AGAR (Sheep Blood 5%)
11052	DERMATOPHYTE (D.T.M.) AGAR
11052*	DERMATOPHYTE (D.T.M.) AGAR
11054	GARDNERELLA AGAR (Sheep Blood 5%)
11054*	GARDNERELLA AGAR (Sheep Blood 5%)
11057	ENTEROCOCCO AGAR
11057*	ENTEROCOCCO AGAR
11058	SLANETZ BARTLEY AGAR(m-ENTEROCOCCUS)
11058*	SLANETZ BARTLEY AGAR(m-ENTEROCOCCUS)
11060	CLOSTRIDIUM AGAR (Sheep Blood 5%)
11060*	CLOSTRIDIUM AGAR (Sheep Blood 5%)
11065	SCHAEDLER K AGAR (Sheep Blood 5%)
11065*	SCHAEDLER K AGAR (Sheep Blood 5%)
11070	MYCOSEL AGAR
11070*	MYCOSEL AGAR
11124	COLUMBIA CNA MOD. AGAR (Sheep blood 5%)
11124*	COLUMBIA CNA MOD. AGAR (Sheep blood 5%)
11132	Mueller Hinton Fastidious Agar (Horse blood 5% + 20 mg/L β-NAD) (140 mm)
11135	SABOURAUD AGAR MODIFIED
11135*	SABOURAUD AGAR MODIFIED
11143	HERELLEA AGAR
11143*	HERELLEA AGAR
11185	VOGEL JOHNSON AGAR
11185*	VOGEL JOHNSON AGAR
11195	T.C.B.S. AGAR
11195*	T.C.B.S. AGAR
11196	SPS AGAR
11196*	SPS AGAR
11200	PAR TEST AGAR
11200*	PAR TEST AGAR
11205	MYCOPLASMA AGAR
11206	Mueller Hinton II Agar + 2% NaCl
11231	Mueller Hinton II Agar (Sheep Blood 5%) 140 mm
11235	SABOURAUD CAF AGAR + TTC
11235*	SABOURAUD CAF AGAR + TTC
11236	Sabouraud CAF Agar + Actidione
11250	TINSDALE AGAR
11250*	TINSDALE AGAR
11335	SABOURAUD AGAR + GENTAMICIN
11335*	SABOURAUD AGAR + GENTAMICIN
11501	ENTEROCOCCUS AGAR + VANCOMYCIN
11506	BURKHOLDERIA CEPACIA SELECTIVE AGAR
11509	R.P.M.I. AGAR
11510	M.HINTON+GLUCOSE+METHYLEN BLUE
11512	NUTRIENT AGAR acc.to ISO 21528
11513	NUTRIENT AGAR acc.to ISO 6579
11517	COLUMBIA AGAR(Sheep Blood 5%)+VANCOMYCIN
11518	Mueller Hinton Agar + Cloxacillin
11610	Chromatic™ E.coli O157
11611	CHROMATIC™ DETECTION
11612	CHROMATIC™ CANDIDA
11614	CHROMATIC™ SALMONELLA
11616	CHROMATIC™ STAPH AUREUS
11617	CHROMATIC™ STREPTO B
11618	CHROMATIC™ MH
11619	CHROMATIC™ CRE
11621	CHROMATIC™ VRE
11622	CHROMATIC™ ESBL
11627	Chromatic™ Enterococcus

11629	CHROMATIC™ ESBL + AmpC
11629*	CHROMATIC™ ESBL + AmpC
11631	Chromatic™ OXA-48
11632	Chromatic™ Clostridium difficile
11633	Chromatic™ Vibrio
11634	Chromatic™ Detection opaque
11635	Chromatic™ Pseudomonas
12031	MUELLER HINTON II AGAR (120X120 mm)
12032	Mueller Hinton II Agar (Sheep Blood 5%) (120 mm x 120 mm)
12033	Mueller Hinton Fastidious Agar (Horse blood 5% + 20 mg/L β-NAD) (120 mm x 120 mm)
13012	CLED/MACCONKEY/TSA BLOOD AGAR
13012*	CLED/MACCONKEY/TSA BLOOD AGAR
13013	BAIRD PARKER/BIGGY/MACCONKEY
13013*	BAIRD PARKER/BIGGY/MACCONKEY
13014	COLUMBIA CNA/CIOCCOLATO/THAYER MARTIN
13014*	COLUMBIA CNA/CIOCCOLATO/THAYER MARTIN
13017	CLED/MACCONKEY MMG/MALTO
13017*	CLED/MACCONKEY MMG/MALTO
13018	BROM CRESOL PURPLE/COLUMBIA CNA/M.CONKEY
13018*	BROM CRESOL PURPLE/COLUMBIA CNA/M.CONKEY
13019	CLED/MACCONKEY/CETRIMIDE
13019*	CLED/MACCONKEY/CETRIMIDE
13020	MAC CONKEY/B.PARKER/TSA BLOOD
13345	GARDNERELLA V./ROGOSA/THAYER MARTIN
13345*	GARDNERELLA V./ROGOSA/THAYER MARTIN
13356	Gard.V. / Chocolate / Thayer Martin
13371	BAIRD PARKER/MACCONKEY/SABOURAUD CAF
13371*	BAIRD PARKER/MACCONKEY/SABOURAUD CAF
13480	MACCONKEY/VOGEL JOHNSON/SABOURAUD
13480*	MACCONKEY/VOGEL JOHNSON/SABOURAUD
13602	SABOURAUD CAF/BAIRD PARKER/BILE ESCULINE
13602*	SABOURAUD CAF/BAIRD PARKER/BILE ESCULINE
13607	CHOC. BAC./COLUMBIA/MAC CONKEY
13607*	CHOC. BAC./COLUMBIA/MAC CONKEY
13614	CLED/MACCONKEY/ENTEROCOCCO
13614*	CLED/MACCONKEY/ENTEROCOCCO
165312	MYCOPLASMA AGAR
18007	CHROMATIC™ STAPH AUREUS/ MRSA
18008	TSA BLOOD/CROMagar ORIENTATION
18008*	TSA BLOOD/CROMagar ORIENTATION
18009	Chromatic™ Salmonella/Hektoen Enteric
18011	CHROMATIC™ DETECTION/ESBL
18012	BRILLIANT GREEN / SS AGAR
18012*	BRILLIANT GREEN / SS AGAR
18015	BIGGY (NICKERSON) / MALT AGAR
18015*	BIGGY (NICKERSON) / MALT AGAR
18017	COLUMBIA CNA BLOOD/CHROMAGAR
18017*	COLUMBIA CNA BLOOD/CHROMAGAR
18018	MAC CONKEY/ SABOURAUD CAF
18020	EMB LEVINE / TSA BLOOD
18020*	EMB LEVINE / TSA BLOOD
18021	Chromatic™ CRE / Chromatic™ ESBL
18021*	Chromatic™ CRE / Chromatic™ ESBL
18022	TSA Blood/Columbia CNA
18023	Chromatic™ CRE / Chromatic™ OXA-48
18024	MSA / Chromatic™ MRSA
18025	Schaedler K / Schaedler KKV
18327	COLUMBIA CNA / MAC CONKEY
18327*	COLUMBIA CNA / MAC CONKEY

18379	GARDNERELLA V. / THAYER MARTIN
18379*	GARDNERELLA V. / THAYER MARTIN
18380	MAC CONKEY / TSA BLOOD
18380*	MAC CONKEY / TSA BLOOD
18390	BAIRD PARKER / SABOURAUD CAF
18390*	BAIRD PARKER / SABOURAUD CAF
18391	HEKTOEN ENTERIC / YERSINIA
18391*	HEKTOEN ENTERIC / YERSINIA
18422	COLUMBIA CNA / GARDNERELLA
18422*	COLUMBIA CNA / GARDNERELLA
18500	BAIRD PARKER / MAC CONKEY
18500*	BAIRD PARKER / MAC CONKEY
18502	CLED / MAC CONKEY
18502*	CLED / MAC CONKEY
18503	HEKTOEN ENTERIC / SS
18503*	HEKTOEN ENTERIC / SS
18505	MAC CONKEY / S.S.AGAR
18505*	MAC CONKEY / S.S.AGAR
18507	COLUMBIA CNA / CHOCOLATE
18507*	COLUMBIA CNA / CHOCOLATE
18595	D.T.M. / SABOURAUD
18595*	D.T.M. / SABOURAUD
18700	Group A Selective/TSA II + Sheep Blood 5%
18703	CHOCOLATE AGAR /THAYER MARTIN
20075	MAC CONKEY BROTH(7516MC2) 20x5ml
20077	PHYSIOLOGICAL SOLUTION 2.5 ml
20079	PHYSIOLOGICAL SOLUTION 4.5 ML
20081	INOCULUM SOLUTION 5 ML
20089	SUSPENSION BROTH
20090	HELICOBACTER PYLORI TEST
20095	PHYSIOLOGICAL SOLUTION
20105	Glucose Broth
20121	INOCULUM BROTH 7 ML
20129	TRYPTIC SOY BROTH 15 ml
20140	PURPLE LACTOSE BROTH
20156	SUSPENSION MEDIUM 7 ML
20158	MYCOPLASMA TRANSPORT BROTH
20159	TRICHOMONAS BROTH w/o CLORAMPHENICOL
20171	Thioglycollate Medium w VitK1 & Hemin
20340	VAGITUBE
21241	Fluid Thioglycollate Medium
22130	SCHAEDLER BROTH
23001	F.B. FASTIDIOUS BROTH
23002	MUELLER HINTON BROTH w HORSE BLOOD (11ml)
23003	MUELLER HINTON BROTH
24070	MYCOSEL BROTH 20PV
24071	Cooked Meat Medium
24091	HAEMOPHILUS TEST BROTH 20 PV
24098	PEPTONE WATER 20PV
24100	Alkaline Peptone Water
24103	NUTRIENT BROTH 20PV
24104	BRAIN HEART INFUSION BROTH 20PV
24105	Glucose Broth
24107	MUELLER HINTON II BROTH 20 PV
24108	MULLER KAUFFMANN BROTH 20PV
24109	Sabouraud Dextrose Broth
24110	Selenite Broth
24111	TODD HEWITT BROTH 20PV
24112	TRYPTOSE BROTH 20PV
24115	TRICHOMONAS BROTH 20PV

24117	Pergola Broth
24119	GN HAJNA BROTH 20PV
24120	BILE AESCULIN BROTH 20PV
24124	Fluid Thioglycollate Medium
24125	SERUM BROTH 20PV
24127	Fluid Thioglycollate Medium + 1% Tween 80
24128	TRYPTIC SOY BROTH + TWEEN 80 1% 20PV
24135	SALMONELLA DIFFERENTIAL BROTH 20PV
24136	TRYPTONE WATER 20PV
24137	MALONATE BROTH 20PV
24139	LYSINE DECARBOXYLASE BROTH 20PV
24141	BRAIN HEART INFUSION BROTH 2 ml 20PV
24142	PHYSIOLOGICAL SOLUTION 3ml 20PV
24143	Selenite Broth
24144	TODD HEWITT w Gentam/Nalidixic acid 20PV
24145	TODD HEWITT B. w Colistin/Nalid.a. 20PV
24146	THIOGLYCOLLATE M w/o INDICATOR acc.USP 20PV
24147	Thiogycollate Bile
24149	MR-VP MEDIUM 20PV
24161	Sabouraud Dextrose Broth + CAF
24241	Fluid Thioglycollate Medium
24342	Motility Test Medium
24343	MIU Semisolid Agar
24345	O.F. Medium with Glucose
24400	RAPPAPORT VASSILIADIS SOY (RSV) BROTH 20PV
24403	BIOTONE BROTH 20PV
24404	CAMPYLOBACTER BROTH 20PV
24411	S.F. BROTH 20PV
24412	STREPTOCOCCUS BROTH 20PV
24413	MOSSEL AND MARTIN w MANNITOL 20PV
24416	UREA BROTH 20PV
24417	Wilkins Chalgren Broth
24430	SCHAEDLER BROTH 20PV
24432	YERSINIA BROTH 20PV
24433	EUGON BROTH 20PV
24436	MIDDLEBROOK 7H9 BROTH 20PV
24446	PHENOL RED BROTH 20PV
24450	Rappaport Broth w/o Soy
24451	Tetrathionate Broth
24459	CASO BROTH (Double Concentration) CE 20PV
24461	RPMI Broth
24462	RPMI Broth (double strength)
24471	Listeria Motility Medium
24513	TRYPTIC SOY BROTH (Harm.EP)
24514	TRYPTIC SOY BROTH
24516	UREA BROTH
25105	Glucose Broth
26124	Fluid Thioglycollate Medium 100 x 10 ml
26342	Motility Test Medium
26400	RAPPAPORT VASSILIADIS SOY (RSV) BROTH
26475	Tryptic Soy Agar
26513	Tryptic Soy Broth
27001	GESA MEDIUM
27500	Triptic Soy Broth
27501	Todd Hewitt Broth
27502	Brain Heart Infusion Broth
27503	Nutrient Broth
29000	CHECK-SET BROTH Irradiated 20 Test
30007	CAMPYLOBACTER SELECTIVE THIOGLYCOLLATE MEDIUM
30008	CLOSTRIDIUM AGAR (Sheep Blood 5%)

30009	HELICOBACTER PYLORI AGAR
30010	STREPTOCOCCAL KF + TTC AGAR
30011	SIMMONS CITRATE AGAR
30013	NITRATI AGAR
30014	MOSSEL AGAR
30022	T.C.B.S. AGAR
30023	Sabouraud CAF Agar
30024	SABOURAUD CAF + ACTIDIONE AGAR
30030	M.R.S. AGAR
30080	BORDET GENGOU AGAR (Sheep Blood 15%)
30081	CHRISTENSEN UREA AGAR
30082	Tryptic Soy Agar
30083	NUTRIENT AGAR
30084	BRAIN HEART INFUSION AGAR
30085	PHENYLALANINE AGAR
30087	KLIGLER IRON AGAR
30088	KLIGLER IRON AGAR + NaCl 2%
30090	Mueller Hinton II Agar
30091	BIGGY (NICKERSON) AGAR
30093	SABOURAUD AGAR
30095	SIM MEDIUM
30096	T.S.I. AGAR
30097	Tryptose Agar
30098	LYSINE IRON AGAR
30099	Chocolate Agar
30116	LOEFFLER MEDIUM
30117	PERGOLA MEDIUM
30118	Lowenstein Jensen Medium
30119	LOWENSTEIN JENSEN MEDIUM w/o GLYCEROL
30121	Stonebrink Medium
30125	DORSET EGG MEDIUM
30368	MIDDLEBROOK 7H10 AGAR
31023	Sabouraud CAF Agar
31065	SPS Agar
31075	Mueller Hinton II Agar
31082	Tryptic Soy Agar
31083	Nutrient Agar ISO 16266
31090	Mueller Hinton II Agar
31097	Tryptose Agar
31099	Chocolate Agar
31121	Stonebrink Medium
31204	MIU Agar
33040	THAYER MARTIN AGAR
33055	MYCOSEL AGAR
33060	SERUM TELLURITE AGAR
33066	O.N.P.G. AGAR
33085	BILE AESCULIN AGAR
33086	DERMATOPHYTE (D.T.M.) AGAR
33118	I.U.T.M. MEDIUM
33120	PETRAGNANI MEDIUM
34070	CAMPYLOBACTER AGAR
34071	CYSTINE TRYPTIC AGAR (CTA)
34075	Mueller Hinton II Agar
34121	LOWENSTEIN JENSEN + RIFAMPICIN 15 µg/mL
34121/1	LOWENSTEIN JENSEN + RIFAMPICIN 5 µg/mL
34121/2	LOWENSTEIN JENSEN + RIFAMPICIN 10 µg/mL
34121/3	LOWENSTEIN JENSEN + RIFAMPICIN 25 µg/mL
34121/4	LOWENSTEIN JENSEN + RIFAMPICIN 50 µg/mL
34121/5	LOWENSTEIN JENSEN + RIFAMPICIN 40 µg/mL
34121/6	LOWENSTEIN JENSEN + RIFAMPICIN 20 µg/mL

34122	LOWENSTEIN JENSEN + RIFAPENTIN 9 µg/mL
34123	LOWENSTEIN JENSEN + ISONIAZID 0.1 µg/mL
34123/1	LOWENSTEIN JENSEN + ISONIAZID 0.2 µg/mL
34123/2	LOWENSTEIN JENSEN + ISONIAZID 1 µg/mL
34123/3	LOWENSTEIN JENSEN + ISONIAZID 5 µg/mL
34123/4	LOWENSTEIN JENSEN + ISONIAZID 10 µg/mL
34124/1	LOWENSTEIN JENSEN + PYRAZINAMIDE 5 µg/mL
34124/2	LOWENSTEIN JENSEN + PYRAZINAMIDE 15 µg/mL
34124/3	LOWENSTEIN JENSEN + PYRAZINAMIDE 20 µg/mL
34124/4	LOWENSTEIN JENSEN+PYRAZINAMIDE 200 µg/mL
34125/1	LOWENSTEIN JENSEN + STREPTOMYCIN 4 µg/mL
34125/2	LOWENSTEIN JENSEN + STREPTOMYCIN 10 µg/mL
34125/3	LOWENSTEIN JENSEN + STREPTOMYCIN 25 µg/mL
34125/4	LOWENSTEIN JENSEN + STREPTOMYCIN 2 µg/mL
34125/5	LOWENSTEIN JENSEN + STREPTOMYCIN 50 µg/mL
34126/1	LOWENSTEIN JENSEN + ETHAMBUTOL 2 µg/mL
34126/2	LOWENSTEIN JENSEN + ETHAMBUTOL 4 µg/mL
34126/3	LOWENSTEIN JENSEN + ETHAMBUTOL 5 µg/mL
34126/4	LOWENSTEIN JENSEN + ETHAMBUTOL 1 µg/mL
34126/5	LOWENSTEIN JENSEN + ETHAMBUTOL 3 µg/mL
34126/6	LOWENSTEIN JENSEN + ETHAMBUTOL 10 µg/mL
34127	LOWENSTEIN JENSEN + AMIKACIN 5 µg/mL
34127/1	LOWENSTEIN JENSEN + AMIKACIN 40 µg/mL
34128/1	LOWENSTEIN JENSEN + OFLOXACIN 5 µg/mL
34128/2	LOWENSTEIN JENSEN + OFLOXACIN 10 µg/mL
34128/3	LOWENSTEIN JENSEN + OFLOXACIN 25 µg/mL
34128/4	LOWENSTEIN JENSEN + OFLOXACIN 2 µg/mL
34128/5	LOWENSTEIN JENSEN + OFLOXACIN 20 µg/mL
34129/1	LOWENSTEIN JENSEN + PAS 1 µg/mL
34129/2	LOWENSTEIN JENSEN + PAS 10 µg/mL
34129/3	LOWENSTEIN JENSEN + PAS 0.5 µg/mL
34129/4	LOWENSTEIN JENSEN + PAS 0.1 µg/mL
34129/5	LOWENSTEIN JENSEN + PAS 5 µg/mL
34130/1	LOWENSTEIN JENSEN + RIFABUTIN 10 µg/mL
34130/2	LOWENSTEIN JENSEN + RIFABUTIN 30 µg/mL
34130/3	LOWENSTEIN JENSEN + RIFABUTIN 50 µg/mL
34131/1	LOWENSTEIN JENSEN+CLARITHROMICIN 4 µg/mL
34131/2	LOWENSTEIN JENSEN+CLARITHROMYCIN 32 µg/mL
34132/1	LOWENSTEIN JENSEN + ETHIONAMIDE 10 µg/mL
34132/2	LOWENSTEIN JENSEN + ETHIONAMIDE 20 µg/mL
34132/3	LOWENSTEIN JENSEN + ETHIONAMIDE 30 µg/mL
34132/4	LOWENSTEIN JENSEN + ETHIONAMIDE 40 µg/mL
34135/1	LOWENSTEIN JENSEN + NICOTINAMIDE 10 µg/mL
34135/2	LOWENSTEIN JENSEN + NICOTINAMIDE 20 µg/mL
34135/3	LOWENSTEIN JENSEN + NICOTINAMIDE 30 µg/mL
34136	LOWENSTEIN JENSEN + PEFLOXACIN 2 µg/mL
34137/1	LOWENSTEIN JENSEN + CYCLOSERINE 30 µg/mL
34137/2	LOWENSTEIN JENSEN + CYCLOSERINE 10 µg/mL
34137/3	LOWENSTEIN JENSEN + CYCLOSERINE 20 µg/mL
34137/4	LOWENSTEIN JENSEN + CYCLOSERINE 40 µg/mL
34137/5	LOWENSTEIN JENSEN + CYCLOSERINE 50 µg/mL
34138/1	LOWENSTEIN JENSEN + CAPREOMYCIN 10 µg/mL
34138/2	LOWENSTEIN JENSEN + CAPREOMYCIN 40 µg/mL
34138/3	LOWENSTEIN JENSEN + CAPREOMYCIN 20 µg/mL
34138/4	LOWENSTEIN JENSEN + CAPREOMYCIN 30 µg/mL
34139/1	LOWENSTEIN JENSEN + CLOFAZIMINE 5 µg/mL
34139/2	LOWENSTEIN JENSEN + CLOFAZIMINE 10 µg/mL
34143/1	LOWENSTEIN JENSEN + KANAMYCIN 10 µg/mL
34143/2	LOWENSTEIN JENSEN + KANAMYCIN 20 µg/mL
34143/3	LOWENSTEIN JENSEN + KANAMYCIN 30 µg/mL

34144	LOWENSTEIN JENSEN + PYRUVATE 0.2%
34145	LOW.JENSEN + PACT
34146/1	Lowenstein Jensen + Levofloxacin 2 µg/ml
35000	LOWENSTEIN JENSEN MEDIUM
35001	LOWENSTEIN JENSEN + ISONIAZID 0.20 µg/mL
35002	LOWENSTEIN JENSEN + ISONIAZID 1 µg/ml
35010	LOWENSTEIN JENSEN + RIFAMPICIN 40 µg/mL
35011	LOWENSTEIN JENSEN + RIFAMPICIN 20 µg/mL
35020	LOWENSTEIN JENSEN + STREPTOMYCIN 4 µg/mL
35021	LOWENSTEIN JENSEN + STREPTOMYCIN 10µg/ml
35030	LOWENSTEIN JENSEN + ETHAMBUTOL 2 µg/mL
35040	LOWENSTEIN JENSEN + ETHIONAMIDE 20 µg/mL
35041	LOWENSTEIN JENSEN + ETHIONAMIDE 30µg/ml
35050	LOWENSTEIN JENSEN + PYRAZINAMIDE 1 µg/mL
35060	LOWENSTEIN JENSEN + KANAMYCIN 20 µg/mL
35061	LOWENSTEIN JENSEN + KANAMYCIN 30µg/ml
35070	LOWENSTEIN JENSEN + PAS 1 µg/mL
35071	LOWENSTEIN JENSEN + PAS 0.5 µg/mL
35080	LOWENSTEIN JENSEN + OFLOXACIN 2 µg/ml
35081	LOWENSTEIN JENSEN + OFLOXACIN 10 µg/ml
35082	LOWENSTEIN JENSEN + OFLOXACIN 40 µg/ml
35090	LOWENSTEIN JENSEN + CAPREOMYCIN 30 µg/ml
35091	LOWENSTEIN JENSEN + CAPREOMYCIN 20 µg/ml
35147	LOWENSTEIN JENSEN + PNB 500 µg/ml
35148	LOWENSTEIN JENSEN + TCH 2 µg/ml
36001/1	IUTM + STREPTOMYCIN 2 µg/mL
36001/2	IUTM + STREPTOMYCIN 4 µg/mL
36001/3	IUTM + STREPTOMYCIN 10 µg/mL
36001/4	IUTM + STREPTOMYCIN 25 µg/mL
36001/5	IUTM + STREPTOMYCIN 50 µg/mL
36002/1	IUTM + ISONIAZID 0.1 µg/mL
36002/2	IUTM + ISONIAZID 0.2 µg/mL
36002/3	IUTM + ISONIAZID 1 µg/mL
36002/4	IUTM + ISONIAZID 5 µg/mL
36002/5	IUTM + ISONIAZID 10 µg/mL
36003/1	IUTM + ETHAMBUTOL 1 µg/mL
36003/2	IUTM + ETHAMBUTOL 2 µg/mL
36003/3	IUTM + ETHAMBUTOL 3 µg/mL
36003/4	IUTM + ETHAMBUTOL 5 µg/mL
36003/5	IUTM + ETHAMBUTOL 10 µg/mL
36004/1	IUTM + RIFAMPICIN 5 µg/mL
36004/2	IUTM + RIFAMPICIN 10 µg/mL
36004/3	IUTM + RIFAMPICIN 20 µg/mL
36004/4	IUTM + RIFAMPICIN 40 µg/mL
36004/5	IUTM + RIFAMPICIN 50 µg/mL
36005/1	IUTM + RIFABUTIN 10 µg/mL
36005/2	IUTM + RIFABUTIN 20 µg/mL
36005/3	IUTM + RIFABUTIN 30 µg/mL
36005/4	IUTM + RIFABUTIN 40 µg/mL
36005/5	IUTM + RIFABUTIN 50 µg/mL
36006/1	IUTM + CYCLOSERINE 10 µg/mL
36006/2	IUTM + CYCLOSERINE 20 µg/mL
36006/3	IUTM + CYCLOSERINE 30 µg/mL
36006/4	IUTM + CYCLOSERINE 40 µg/mL
36006/5	IUTM + CYCLOSERINE 50 µg/mL
36007/1	IUTM + OFLOXACIN 1.25 µg/mL
36007/2	IUTM + OFLOXACIN 2.5 µg/mL
36007/3	IUTM + OFLOXACIN 10 µg/mL
36007/4	IUTM + OFLOXACIN 25 µg/mL
36007/5	IUTM + OFLOXACIN 50 µg/mL

36008/1	IUTM + PAS 0.1 µg/mL
36008/2	IUTM + PAS 0.5 µg/mL
36008/3	IUTM + PAS 1 µg/mL
36008/4	IUTM + PAS 5 µg/mL
36008/5	IUTM + PAS 10 µg/mL
36009/1	IUTM + PYRAZINAMIDE 10 µg/mL
36009/2	IUTM + PYRAZINAMIDE 30 µg/mL
36009/3	IUTM + PYRAZINAMIDE 50 µg/mL
36009/4	IUTM + PYRAZINAMIDE 70 µg/mL
36009/5	IUTM + PYRAZINAMIDE 90 µg/mL
37000	MIDDLEBROOK 7H11
37001	MIDDLEBROOK 7H11 + AMIKACIN 2 µg/mL
37002	MIDDLEBROOK 7H11 + AMIKACIN 4 µg/mL
37006	MIDDLEBROOK 7H11 + ETHAMBUTOL 7.5 µg/mL
37011	MIDDLEBROOK 7H11 + ETHIONAMIDE 10 µg/mL
37016	MIDDLEBROOK 7H11 + ISONIAZIDE 0.2 µg/mL
37017	MIDDLEBROOK 7H11 + ISONIAZIDE 1 µg/mL
37021	MIDDLEBROOK 7H11 + KANAMYCIN 6 µg/mL
37026	MIDDLEBROOK 7H11 + PAS 8 µg/mL
37031	MIDDLEBROOK 7H11 + PYRAZINAMIDE 25 µg/mL
37036	MIDDLEBROOK 7H11 + RIFABUTIN 1 µg/mL
37037	MIDDLEBROOK 7H11 + RIFABUTIN 0.5 µg/mL
37041	MIDDLEBROOK 7H11 + RIFAMPICIN 1 µg/mL
37046	MIDDLEBROOK 7H11 + STREPTOMYCIN 2 µg/mL
37051	MIDDLEBROOK 7H11 + OFLOXACIN 2 µg/mL
37056	MIDDLEBROOK 7H11 + CYCLOSERINE 30 µg/mL
400020	Fluid Thioglycollate Medium 6 x 100 ml
400120	Fluid Thioglycollate Medium 6 x 300 ml
400220	Fluid Thioglycollate Medium 6 x 1000 ml
401890	BUFFER SOLUTION pH 7 6X100 ml
401930	SPS Agar 6X150 ml.
401980	TRYPTONE WATER 6X100 ml
401990	Alkaline Peptone Water 6 x 100 ml
402000	NUTRIENT BROTH 6X100 ml
402020	MUELLER HINTON II BROTH 6X100 ml
402030	MULLER KAUFFMANN BROTH 6X100 ml
402040	Sabouraud Dextrose Broth 6 x 100 ml
402050	Selenite Broth 6 x 100 ml
402060	SALMONELLA DIFF.BROTH 6X90 ml
402070	TRYPTOSE BROTH 6X100 ml
402120	MRS AGAR 6X100 ml
402130	PEPTONE WATER 6X100 ml
402140	BLOOD AGAR BASE 6X100 ml
402170	AZIDE BLOOD AGAR BASE 6X100 ml
402180	CLED AGAR 6X100 ml
402190	NUTRIENT AGAR 6X100 ml
402200	DERMATHOPHYTE (D.T.M.) AGAR 6X100 ml
402210	COLUMBIA CNA AGAR BASE 6X100 ml
402220	DRIGALSKI LACTOSE AGAR 6X100 ml
402230	HEKTOEN ENTERIC AGAR 6X100 ml
402240	MAC CONKEY AGAR 6X100 ml
402250	MUELLER HINTON II AGAR 6X100 ml
402270	PSEUDOMONAS CETRIMIDE AGAR 6X100 ml
402280	SABOURAUD AGAR 6X100 ml
402290	MANNITOL SALT AGAR 6X100 ml
402300	S.S. AGAR 6X100 ml
402320	TRYPTOSE AGAR 6X100 ml
402330	BRILLIANT GREEN AGAR 6X100 ml
402340	DESOXYCHOLATE AGAR 6X100 ml
402350	E.M.B. LEVINE AGAR 6X100 ml

402360	SALMONELLA RAPID TEST 6X100 ml
402370	SABOURAUD CAF AGAR 6X100 ml
402380	BRAIN HEART INFUSION AGAR 6X100 ml
402430	PEPTONE DILUITIONS 6X100 ml
402450	MAC CONKEY SORBITOL AGAR 6X100 ml
402500	Fluid Thioglycollate Medium + 1% Tween 80
402570	X.L.D. AGAR 6X100 ml
403030	BIOTONE BROTH 6X100 ml
403050	S.I.M. MEDIUM 6X100 ml
403060	UREA INDOLE BROTH 6X100 ml
403130	Monsur Agar 6 x 100 ml
403140	TCBS Agar 6 x 100 ml
412010	BRAIN HEART INFUSION BROTH 6X200 ml
412030	SIMMONS CITRATE AGAR 6X200 ml
412040	LYSINE IRON AGAR 6X200 ml
412050	Selenite Broth 6 x 200 ml
412060	TODD HEWITT BROTH 6X200 ml
412080	TRICHOMONAS BROTH 6X200 ml
412100	CHRISTENSEN UREA AGAR 5X200 ml
412110	TRYPTIC SOY BROTH + TWEEN80 1% 6x200ml
412130	PSEUDOMONAS AGAR BASE 6x200ml
412150	AZIDE BLOOD AGAR BASE 6X200 ml
412170	PHENILALANINE AGAR 6X200 ml
412180	CLED AGAR 6X200 ml
412190	NUTRIENT AGAR 6X200 ml
412210	COLUMBIA CNA AGAR BASE 6X200 ml
412230	HEKTOEN ENTERIC AGAR 5X200 ml
412240	MAC CONKEY AGAR 6X200 ml
412250	MUELLER HINTON II AGAR 6X200 ml
412270	PSEUDOMONAS CETRIMIDE AGAR 6X200 ml
412280	SABOURAUD AGAR 6X200 ml
412290	MANNITOL SALT AGAR 6X200 ml
412300	S.S. AGAR 6X200 ml
412370	SABOURAUD CAF AGAR 6X200 ml
413010	ISOSENSITEST AGAR 6X200 ml
413030	CAMPYLOBACTER AGAR 6X200 ml
413040	CLOSTRIDIUM AGAR BASE 6X200 ml
413080	NUTRIENT AGAR acc. to ISO 6579
413130	Nutrient Agar semisolid 6 x 200 ml
414010	PEPTONE WATER pH 8.4 + NaCl 1%. 6X225 ml
432050	Selenite Broth (Double Concentration)
432080	TRYPTIC SOY BROTH 6X225 ml
432250	D-Nase TEST AGAR 6X200 ml
432290	Tryptic Soy Agar 6 x 200 ml
442080	TRYPTIC SOY BROTH 6X200 ml
442220	Chocolate Agar 6x 100 ml
442280	SABOURAUD MODIFIED AGAR 6X100 ml
442290	Tryptic Soy Agar 6 x 100 ml
442300	WURTZ LACTOSE AGAR 6X100 ml
442320	BILE AESCULIN AGAR 6X100 ml
442350	BIGGY (NICKERSON) AGAR 6X100 ml
442490	SPS AGAR 6X100 ml
451404	Alkaline Peptone Water 25 x 225 ml
452040	Sabouraud Dextrose Broth 25 x 100 mL
452060	Fluid Thioglycollate Medium 6 x 100 ml
452080	TRYPTIC SOY BROTH 6X100 ml
452210	COLUMBIA AGAR BASE 6X200 ml
452500	Fluid Thioglycollate Medium + 1% Tween 80 25 x 100 ml
453060	Fluid Thioglycollate Medium 25 x 100 ml
463100	Fluid Thioglycollate Medium 6 x 900 ml

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS
Rev. 32.1 del 07.06.2017

463130	Selenite Broth 6 x 1000 ml
470010	Tryptic Soy Agar 6 x 500 ml
470020	Selenite Broth 6 x 500 ml
470030	DESOXYCHOLATE AGAR 6X500 ml
470040	SABOURAUD AGAR 6X500 ml
470050	NUTRIENT BROTH 6X500 ml
470060	NUTRIENT AGAR 6X500 ml
470070	Mueller Hinton II Agar 6X500 ml
470080	MANNITOL SALT AGAR 6X500 ml
470090	MAC CONKEY AGAR 6X500 ml
470100	COLUMBIA AGAR BASE 6X500 ml
470110	CLED AGAR 6X500 ml
470120	Chocolate Agar 6 x 500 ml
470130	BLOOD AGAR BASE 6X500 ml
470140	BILE AESCULIN AGAR 6X500 ml
470150	TRICHOMONAS BROTH 6X500 ml
470160	DESOXYCHOLATE CITRATE AGAR 6X500 ml
470210	Alkaline Peptone Water 6 x 500 ml
470220	CZAPEK DOX AGAR 6X500 ml
470280	DRIGALSKI LACTOSE AGAR 6X500 ml
470290	CARY BLAIR TRANSPORT MEDIUM 6X500 ml
470300	Fluid Thioglycollate Medium 6 x 500 ml
470320	PEPTONE WATER 6X500 ml
470370	TRYPTIC SOY BROTH 6 x 500 ml
471070	Sabouraud Dextrose Broth 6 x 500 ml
471120	PHYSIOLOGICAL SOLUTION 6X240 ml
473000	PHYSIOLOGICAL SOLUTION 6X500 ml
481110	CHROMATIC™ CANDIDA 6X100 ml
481130	CHROMATIC™ DETECTION 6X100 ml
481140	CHROMATIC™ SALMONELLA 6X100 ml
481160	CHROMATIC™ STAPH AUREUS 6X100 ml
481180	CHROMATIC™ STREP B 6X100ml
482190	Chromatic™ E.coli O157 6 x 200 ml
490010	HEMO-AEROBIC culturing 6X80 ml
490020	HEMO-ANAEROBIC culturing 6X80 ml
490030	HEMO-AEROBIC culturing-Pediatric 6X40 ml
490040	HEMO-ANAEROBIC culturing-Pediatric 6X40ml
490050	HEMO-AEROBIC culturing NEONATAL 6x9 ml
490060	HEMO-ANAEROBIC culturing NEONATAL 6x9 ml
493000	Fluid Thioglycollate Medium 6 x 100 ml
495010	TRYPTIC SOY BROTH 6x100 ml
495020	Fluid Thioglycollate Medium 6 x 100 ml
500142	URITEST PENTA
500152	URITEST
500182	URITEST M
500702	URITEST EF
50020	VAGITEST
50021	DERMATEST
500232	URITEST N
500302	URITEST 2
500402	URITEST MALTO
500412	URITEST EC
51014	URITEST PENTA
51015	URITEST
51018	URITEST M
51020	VAGITEST 120 slide
51021	DERMATEST
51023	URITEST N
51024	URITEST C
51030	URITEST 2

51040	URITEST MALTO
51041	URITEST EC
51070	URITEST EF
51118	URITEST M
51123	URITEST N 500 slide
51130	URITEST 2 500 slide
51140	URITEST MALTO
51170	CLED/MAC CONKEY/ BILE AESCULIN
52115	CLED/MAC CONKEY/SLANETZ 120 slide
52119	URITEST SF 500 slide
610001	BILE AESCULIN AZIDE AGAR
610002	DEXTROSE AGAR
610005	BLOOD AGAR BASE
610006	BORDET GENGOU AGAR BASE
610007	BRAIN HEART INFUSION AGAR
610008	BRAIN HEART INFUSION BROTH
6100085	BRAIN HEART INFUSION BROTH
610009	BRILLIANT GREEN AGAR
610012	CLED AGAR
6100125	CLED AGAR
610013	COLUMBIA AGAR BASE
6100135	COLUMBIA AGAR BASE
610014	DESOXYCHOLATE AGAR
6100145	DESOXYCHOLATE AGAR
610015	DESOXYCHOLATE CITRATE AGAR
610016	DRIGALSKI LACTOSE AGAR
610019	E.M.B. LEVINE AGAR
610021	HEKTOEN ENTERIC AGAR
6100215	HEKTOEN ENTERIC AGAR
610022	G.C. MEDIUM
610023	KLIGLER IRON AGAR
610024	M.R.S. AGAR (ISO/FDIS 15214)
610025	M.R.S. BROTH (ISO/FDIS 15214)
610026	LOWENSTEIN JENSEN MEDIUM
6100265	LOWENSTEIN JENSEN MEDIUM
610027	LYSINE IRON AGAR
610028	MAC CONKEY AGAR
6100285	MAC CONKEY AGAR
610029	MANNITOL SALT AGAR
6100295	MANNITOL SALT AGAR
610032	MR-VP BROTH
610033	MUELLER HINTON AGAR
6100335	MUELLER HINTON AGAR
610034	MUELLER HINTON BROTH
610035	MULLER KAUFFMANN BROTH
610036	Nutrient Agar ISO 16266
6100365	Nutrient Agar ISO 16266
610037	NUTRIENT BROTH
6100375	NUTRIENT BROTH
610038	PEPTONE WATER
610039	PHENYLALANINE AGAR
610041	PSEUDOMONAS CETRIMIDE AGAR (ISO 8360-1)
6100415	PSEUDOMONAS CETRIMIDE AGAR
610042	SS AGAR (MODIFIED)
6100425	SS AGAR (MODIFIED)
610043	SCHAEDLER AGAR BASE
610044	PURPLE LACTOSE AGAR
610046	SIMMONS CITRATE AGAR
610047	MONSUR AGAR
610048	AEROMONAS AGAR BASE

610049	LEGIONELLA BCYE AGAR BASE (ISO 11731)
610050	Fluid Thioglycollate Medium
6100505	Fluid Thioglycollate Medium
610051	TODD HEWITT BROTH
6100515	TODD HEWITT BROTH
610052	Tryptic Soy Agar
6100525	Tryptic Soy Agar
610053	TRYPTIC SOY BROTH
6100535	TRYPTIC SOY BROTH
610055	T.S.I. AGAR USP
610056	CLOSTRIDIUM BROTH
6100565	CLOSTRIDIUM BROTH
610057	MAC CONKEY AGAR No.2
6100575	MAC CONKEY AGAR No.2 5 KG
610060	X.L.D. AGAR (ISO 6579)
6100605	X.L.D. AGAR
610061	TRICHOMONAS BROTH
610065	GSB AGAR BASE (ISLAM)
610071	PSEUDOMONAS AGAR BASE
610072	CZAPEK DOX BROTH
610075	PHENYLALANINE MALONATE BROTH
610079	BRUCELLA AGAR BASE
610080	WORT BROTH W/O NaCl
610092	XLT 4 AGAR
610095	CZAPEK DOX AGAR
610096	REINFORCED CLOSTRIDIAL AGAR
610097	STAPHYLOCOCCUS BROTH
610098	Alkaline Peptone Water
610101	MALT AGAR
610103	SABOURAUD AGAR
6101035	SABOURAUD AGAR
610104	Sabouraud Dextrose Broth
610107	UREA AGAR BASE (ISO 6785)
610108	MAC CONKEY SORBITOL AGAR
610109	P.P.L.O. BROTH
610110	MUELLER HINTON AGAR MODIFIED
610111	YERSINIA SELECTIVE AGAR BASE
610112	CLED ANDRADE AGAR
610113	COLUMBIA CNA AGAR BASE
610114	BACILLUS CEREUS AGAR BASE (MOSSEL) ISO 7932
610115	CLOSTRIDIUM DIFFICILE AGAR BASE
610117	TRYPTONE YEAST AGAR
610118	ANDRADE LACTOSE PEPTONE WATER
610123	CORN MEAL AGAR
610125	LEGIONELLA CYE AGAR BASE
610128	MAC CONKEY AGAR w/o BILE SALT
610130	CAMPYLOBACTER BLOOD FREE MEDIUM BASE
610131	CAMPYLOBACTER ENRICHMENT BROTH BASE
610132	MOTILITY TEST AGAR
610134	SLANETZ BARTLEY AGAR BASE ISO 7899-2
610135	BIGGY (NICKERSON) AGAR
610136	BACILLUS CEREUS AGAR BASE (PEMBA)
610137	SCHAEDLER BROTH
610140	E.M.B. AGAR w LACTOSE + SUCROSE
610143	LIVER BROTH
610144	MRS BROTH w/o GLUCOSE
610145	Selenite Broth
6101455	Selenite Broth
610146	SABOURAUD MALTOSE AGAR
610147	SLANETZ AND BARTLEY AGAR + TTC

6101475	SLANETZ AND BARTLEY AGAR + TTC
610148	SPS AGAR
610151	BILE AESCULIN BROTH
610152	AMIES TRANSPORT MEDIUM + CHARC.
6101525	AMIES TRANSPORT MEDIUM + CHARC.
610153	AZIDE BLOOD AGAR BASE
610155	AZIDE VIOLET BLOOD AGAR BASE
610157	BIOTONE AGAR
610158	BIOTONE BROTH
610159	CPLM SELECTIVE WITH CAF
610160	DERMATOPHYTE (D.T.M.) AGAR
610161	DEXTROSE BROTH
610163	G.N. HAJNA BROTH
610164	HERELLEA AGAR
6101645	HERELLEA AGAR
610165	KOSER CITRATE MEDIUM
610168	LISTERIA PALCAM AGAR
610169	I.U.T.M. MEDIUM
610170	MAC CONKEY MMG AGAR
6101705	MAC CONKEY MMG AGAR
610172	MALONATE BROTH
610174	PHENOL RED BROTH BASE
610175	RAPPAPORT VASSILIADIS BROTH (ISO 6785-6579)
610176	ROGOSA AGAR
610177	ROGOSA BROTH
610179	SABOURAUD CAF AGAR + ACTIDIONE
610180	S.F. BROTH
610181	S.I.M. MEDIUM
610182	STUART TRANSPORT MEDIUM
610183	TETRATHIONATE BROTH BASE
610185	TRYPTIC (CTA) MEDIUM
610186	VOGEL JOHNSON AGAR
610188	BLOOD AGAR BASE N. 2
610191	AMIES TRANSPORT MEDIUM (w/o CHARCOAL)
6101915	AMIES TRANSPORT MEDIUM (w/o CHARCOAL)
610193	TRYPTOSE AGAR
610195	MAC CONKEY AGAR w/o CRYSTAL VIOLET
610196	TRYPTIC BILE AGAR
610197	TRYPTOFAN BROTH
610200	CAMPYLOBACTER KARMALI AGAR BASE
610203	SABOURAUD CAF AGAR
6102035	SABOURAUD CAF AGAR 5 KG
610205	DNase TEST AGAR
610206	TRYPTONE WATER (ISO/DIS 3811)
610207	CLOSTRIDIUM PERFRIGENS AGAR BASE
610210	BILE AESCULIN AGAR
610211	KLIGLER IRON AGAR MOD.
610214	MIDDLEBROOK 7H9 BROTH BASE
610217	NUTRIENT BROTH N.2
610218	Mueller Hinton II Broth
610221	ANTIBIOTIC TEST MEDIUM
610222	CLOSTRIDIUM BROTH w/o AGAR
6102225	CLOSTRIDIUM BROTH w/o AGAR
610223	MAC CONKEY AGAR w/o Salt
610227	PHENOL RED AGAR BASE
610229	ANTIBIOTIC MEDIUM E
610230	OXIDATIVE/FERMENTATIVE MEDIUM
610233	TRYPTOSE BROTH
610235	MANNITOL MOTILITY TEST MEDIUM
610236	MOTILITY INDOLE UREA AGAR (M.I.U.)

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS
Rev. 32.1 del 07.06.2017

610245	LB AGAR
610301	BISMUTH SULPHITE AGAR
610303	Lysine Decarboxylase Broth
610304	OF BASAL MEDIUM
610305	ORNITHINE DECARBOXYLASE BROTH
610306	ARGININE DECARBOXYLASE BROTH
610308	PHENOL RED AGAR BASE
610309	PSEUDOMONAS AGAR F
610310	PSEUDOMONAS AGAR P
610311	UREA BROTH
610315	ANTIBIOTIC AGAR N.11
610319	PFIZER SELECTIVE ENTEROCOCCUS AGAR
610322	NITRATE BROTH
610331	DIAGNOSTIC SENSITIVITY TEST AGAR (D.S.T.)
610339	T.S.I. AGAR acc.EP
610341	EMGON BROTH
610343	MANNITOL SALT BROTH
610363	Yeast Extract Sodium Lactate medium
610364	Tryptose Phosphate Broth
6103645	Tryptose Phosphate Broth
610372	Cooked Meat Medium
610492	POLYPEPTONE
610495	BRAIN HEART INFUSION
6104955	BRAIN HEART INFUSION
610496	ACID HYDROLISATE OF CASEIN
610497	BEEF EXTRACT
6104975	BEEF EXTRACT
610498	LACTOSE
6104985	LACTOSE
610506	CYSTINE HEART AGAR
610611	CHROMATIC™ SALMONELLA
610612	CHROMATIC™ DETECTION
6106125	CHROMATIC™ DETECTION
610613	CHROMATIC™ CANDIDA
610614	Chromatic™ E.coli O157
610615	CHROMATIC™ MRSA
610616	CHROMATIC™ STAPH AUREUS
610617	CHROMATIC™ STREP B
610625	SABOURAUD CAF (50 mg/L) AGAR
610627	MUELLER HINTON II AGAR
6106275	MUELLER HINTON II AGAR
610629	CHROMATIC™ ESBL
610633	Chromatic™ Vibrio
611000	SODIUM CHLORIDE
611001	AGAR
6110015	AGAR
611002	GELATIN BACTERIOLOGICAL
6110025	GELATIN BACTERIOLOGICAL
611003	SODIUM SELENITE
6110035	SODIUM SELENITE
611004	TRYPTONE
6110045	TRYPTONE
611005	YEAST EXTRACT
6110055	YEAST EXTRACT
611006	MALT EXTRACT
6110065	MALT EXTRACT
611007	CAMPYLOBACTER AGAR BASE
611008	TRYPTOSE
6110085	TRYPTOSE
611009	GLUCOSIO

611010	T.C.B.S. AGAR
611015	SIERRA LIPOLYTIC AGAR
611021	HEART INFUSION BROTH
6110215	HEART INFUSION BROTH
611022	MIDDLEBROOK 7H10 AGAR BASE
611203	SABOURAUD CAF (1g/l) AGAR
611210	WURTZ LACTOSE AGAR
611265	ISOSENSITEST AGAR
611366	STAPHYLOCOCCUS 110 AGAR
611367	BILE BACTERIOLOGICAL
611401	IRON SULPHITE AGAR
611402	CARY BLAIR TRANSPORT MEDIUM
611502	CASEIN PEPTONE
611601	GLUCOSE
6116015	GLUCOSE
611602	Maltose
611618	CHROMATIC™ MH
611619	CHROMATIC™ CRE AGAR BASE
611701	PEPTONE BACTERIOLOGICAL
6117015	PEPTONE BACTERIOLOGICAL
611706	Hemoglobin
611801	SUCROSE
6118015	SUCROSE
611901	BILE SALT N.3
6119015	BILE SALT N.3
612001	LIVER EXTRACT
6120015	LIVER EXTRACT
612101	PEPTONE MYCOLOGICAL
6121015	PEPTONE MYCOLOGICAL
612201	PROTEOSE PEPTONE
6122015	PROTEOSE PEPTONE
612202	STREPTOCOCCUS SELECTIVE AGAR
612203	STREPTOCOCCUS BROTH
612501	SOY PEPTONE
6125015	SOY PEPTONE
620001	BILE AESCULIN AZIDE AGAR
620002	DEXTROSE AGAR
620005	BLOOD AGAR BASE
620006	BORDET GENGOU AGAR BASE
620007	BRAIN HEART INFUSION AGAR
620008	BRAIN HEART INFUSION BROTH
620009	BRILLIANT GREEN AGAR
620012	CLED AGAR
620013	COLUMBIA AGAR BASE
620014	DESOXYCHOLATE AGAR
620015	DESOXYCHOLATE CITRATE AGAR
620016	DRIGALSKY LACTOSE AGAR
620018	E.M.B. LEVINE AGAR
620021	HEKTOEN ENTERIC AGAR
620022	G.C. MEDIUM
620023	KLIGLER IRON AGAR
620024	M.R.S. AGAR (ISO/FDIS 15214)
620025	M.R.S. BROTH (ISO/FDIS 15214)
620026	LOWENSTEIN JENSEN MEDIUM
620027	LYSINE IRON AGAR
620028	MAC CONKEY AGAR
620029	MANNITOL SALT AGAR
620032	MR-VP BROTH
620033	MUELLER HINTON AGAR
620034	MUELLER HINTON BROTH

620035	MULLER KAUFFMANN BROTH
620036	Nutrient Agar ISO 16266
620037	NUTRIENT BROTH
620038	PEPTONE WATER
620039	PHENYLALANINE AGAR
620041	PSEUDOMONAS CETRIMIDE AGAR (ISO 8360-1)
620042	SS AGAR (MODIFIED)
620043	SCHAEDLER AGAR BASE
620044	PURPLE LACTOSE AGAR
620046	SIMMONS CITRATE AGAR
620047	MONSUR AGAR
620048	AEROMONAS AGAR BASE
620049	LEGIONELLA BCYE AGAR BASE (ISO 11731)
620050	Fluid Thioglycollate Medium
620051	TODD HEWITT BROTH
620052	Tryptic Soy Agar
620053	TRYPTIC SOY BROTH
620055	T.S.I. AGAR USP
620056	CLOSTRIDIUM BROTH
620057	MAC CONKEY AGAR No.2
620060	X.L.D. AGAR (ISO 6579)
620061	TRICHOMONAS BROTH
620065	GSB AGAR BASE (ISLAM)
620071	PSEUDOMONAS AGAR BASE
620072	CZAPEK DOX BROTH
620075	PHENYLALANINE MALONATE BROTH
620079	BRUCELLA AGAR BASE
620092	XLT 4 AGAR
620095	CZAPEK DOX AGAR
620096	REINFORCED CLOSTRIDIAL AGAR
620097	STAPHYLOCOCCUS BROTH
620098	Alkaline Peptone Water
620101	MALT AGAR
620103	SABOURAUD AGAR
620104	Sabouraud Dextrose Broth
620107	UREA AGAR BASE (ISO 6785)
620108	MAC CONKEY SORBITOL AGAR
620109	P.P.L.O. BROTH
620110	MUELLER HINTON AGAR MODIFIED
620111	YERSINIA SELECTIVE AGAR BASE
620112	CLED ANDRADE AGAR
620113	COLUMBIA CNA AGAR BASE
620114	BACILLUS CEREUS AGAR BASE (MOSSEL) ISO 7932
620115	CLOSTRIDIUM DIFFICILE AGAR BASE
620117	TRYPTONE YEAST AGAR
620118	ANDRADE LACTOSE PEPTONE WATER
620122	MIDDLEBROOK 7H10 AGAR BASE
620123	CORN MEAL AGAR
620125	LEGIONELLA CYE AGAR BASE
620130	CAMPYLOBACTER BLOOD FREE MEDIUM BASE
620131	CAMPYLOBACTER ENRICHMENT BROTH BASE
620132	MOTILITY TEST AGAR
620134	SLANETZ BARTLEY AGAR BASE ISO 7899-2
620135	BIGGY (NICKERSON) AGAR
620136	BACILLUS CEREUS AGAR BASE (PEMBA)
620137	SCHAEDLER BROTH
620140	E.M.B. AGAR w LACTOSE + SUCROSE
620143	LIVER BROTH
620144	MRS BROTH w/o GLUCOSE
620145	Selenite Broth

620146	SABOURAUD MALTOSE AGAR
620147	SLANETZ AND BARTLEY AGAR + TTC
620148	SPS AGAR
620151	BILE AESCULIN BROTH
620152	AMIES TRANSPORT MEDIUM + CHARC.
620153	AZIDE BLOOD AGAR BASE
620155	AZIDE VIOLET BLOOD AGAR BASE
620157	BIOTONE AGAR
620158	BIOTONE BROTH
620159	CPLM SELECTIVE WITHCAF
620160	DERMATOPHYTE (D.T.M.) AGAR
620161	DEXTROSE BROTH
620163	G.N. HAJNA BROTH
620164	HERELLEA AGAR
620165	KOSER CITRATE BROTH
620168	LISTERIA PALCAM AGAR
620169	I.U.T.M. MEDIUM
620170	MAC CONKEY MMG AGAR
620172	MALONATE BROTH
620174	PHENOL RED BROTH BASE
620175	RAPPAPORT VASSILIADIS BROTH
620176	ROGOSA AGAR
620177	ROGOSA BROTH
620179	SABOURAUD CAF AGAR + ACTIDIONE
620180	S.F. BROTH
620181	S.I.M. MEDIUM
620182	STUART TRANSPORT MEDIUM
620183	TETRATHIONATE BROTH BASE
620185	TRYPTIC (CTA) MEDIUM
620186	VOGEL JOHNSON AGAR
620188	BLOOD AGAR BASE N. 2
620191	AMIES TRANSPORT MEDIUM (w/o CHARCOAL)
620193	TRYPTOSE AGAR
620195	MAC CONKEY AGSAR w/o CRYSTAL VIOLET
620196	TRYPTIC BILE AGAR
620197	TRYPTOFAN BROTH
620200	CAMPYLOBACTER KARMALI AGAR BASE
620203	SABOURAUD CAF AGAR
620205	DNase TEST AGAR
620206	TRYPTONE WATER (ISO/DIS 3811)
620207	CLOSTRIDIUM PERFRIGENS AGAR BASE
620210	BILE AESCULIN AGAR
620211	KLIGLER IRON AGAR MOD.
620214	MIDDLEBROOK 7H9 BROTH BASE
620217	NUTRIENT BROTH N.2
620218	Mueller Hinton II Broth
620227	PHENOL RED AGAR BASE
620229	ANTIBIOTIC MEDIUM E
620233	TRYPTOSE BROTH
620235	MANNITOL MOTILITY TEST MEDIUM
620303	Lysine Decarboxylase Broth
620309	PSEUDOMONAS AGAR F
620311	UREA BROTH
620495	BRAIN HEART INFUSION
620496	ACID HYDROLISATE OF CASEIN
620497	BEEF EXTRACT
620498	LACTOSE
620611	CHROMATIC™ SALMONELLA
620612	CHROMATIC™ DETECTION
620613	CHROMATIC™ CANDIDA

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS
Rev. 32.1 del 07.06.2017

620614	Chromatic™ E.coli O157
620615	CHROMATIC™ MRSA
620616	CHROMATIC™ STAPH AUREUS
620617	CHROMATIC™ STREP B
620627	MUELLER HINTON II AGAR
620629	CHROMATIC™ ESBL
621000	SODIUM CHLORIDE
621001	AGAR
621003	SODIUM SELENITE
621004	TRYPTONE
621005	YEAST EXTRACT
621006	MALT EXTRACT
621007	CAMPYLOBACTER AGAR BASE
621010	TCBS AGAR
621015	SIERRA LIPOLYTIC AGAR
621021	HEART INFUSION BROTH
621022	MIDDLEBROOK 7H10 AGAR BASE
621210	WURTZ LACTOSE AGAR
621265	ISOSENSITEST AGAR
621367	BILE BACTERIOLOGICAL
621401	IRON SULPHITE AGAR
621402	CARY BLAIR TRANSPORT MEDIUM
621601	GLUCOSE
621618	CHROMATIC™ MH
621619	CHROMATIC™ CRE AGAR BASE
621701	PEPTONE BACTERIOLOGICAL
622202	STREPTOCOCCUS SELECTIVE AGAR
630026	LOWENSTEIN JENSEN MEDIUM w GLYCEROL 1 litre
71618	ENTEROSYSTEM 18R 20 Test
71619	Enterosytem 24R 20 Test
71620	Anaerobe System 20 Test
71630	STAF SYSTEM 18 R 20 Test
71670	COPRO SYSTEM 40 Test
71675	COPRO SYSTEM Plus 20 Test
71678	PATHOGENIC SYSTEM DOUBLE 40 Test
71679	PATHOGENIC SYSTEM 20 Test
71681	PATHOGENIC SYSTEM AST
71714	INTEGRAL SYSTEM ENTEROBATTERI 20 Test
71718	INTEGRAL SYSTEM STAFILOCOCCHI 20 Test
71720	INTEGRAL SYSTEM STREPTOCOCCHI 20 Test
71724	INTEGRAL SYSTEM GARDNERELLA 20 TEST
71822	INTEGRAL SYSTEM YEASTS Plus 20 Test
72560	STREPTO SYSTEM 12 R 40 Test
72592	MYCOPLASMA SYSTEM Plus 20 Test
74156	A.F. GENITAL SYSTEM 20 Test
74160	URIN SYSTEM Plus 20 Test
74161	URIN SYSTEM Chrom 20 Test
75001	SensiTest Colistin 0.25 - 16 mg/L
76010	Sensi Test gram-negative 20 Test
76020	Sensi Test gram-positive 20 Test
76031	SensiQuattro Gram-negative 20 Test
76032	SensiQuattro Gram-positive 20 Test
76033	SensiQuattro Candida EU 20 Test
78618	ENTERO PLURI TEST 10 Test
78619	ENTERO PLURI TEST 25 Test
78620	OXI/FERM PLURI TEST 10 Test
78621	OXI/FERM PLURI TEST 25 Test
79010	Sensi Test gram-negative 4 Test
79020	Sensi Test gram-positive 4 Test
79031	SensiQuattro Gram-negative 4 Test

79032	SensiQuattro Gram-positive 4 Test
79033	SensiQuattro Candida EU 4 Test
79156	A.F. GENITAL SYSTEM 4 Test
79160	URIN SYSTEM Plus 4 Test
79161	URIN SYSTEM Chrom 4 Test
79560	STREPTO SYSTEM 12 R 8 Test
79592	MYCOPLASMA SYSTEM Plus 4 Test
79618	ENTEROSYSTEM 18R 4 Test
79619	Enterosytem 24R 4 Test
79620	Anaerobe System 4 Test
79630	STAF SYSTEM 18 R 4 Test
79670	COPRO SYSTEM 8 Test
79675	COPRO SYSTEM Plus 4 Test
79678	PATHOGENIC SYSTEM DOUBLE 8 Test
79679	PATHOGENIC SYSTEM 4 Test
79681	PATHOGENIC SYSTEM AST
79714	INTEGRAL SYSTEM ENTEROBATTERI 4 Test
79718	INTEGRAL SYSTEM STAFILOCOCCHI 4 Test
79720	INTEGRAL SYSTEM STREPTOCOCCHI 4 Test
79724	INTEGRAL SYSTEM GARDNERELLA 4 Test
79622	INTEGRAL SYSTEM YEASTS Plus 4 Test
80009	IODINE MKTT SOLUTION 10 x 10 ml
80010	XLT 4 supplement 2 x 50 ml
80021	GLYCEROL supplement 4 x 50 ml
80022	POTASSIUM TELLURITE 1% suppl. 5 x 10 ml
80031	TWEEN 80 supplement 2 x 50 ml
80040	CHROMATIC™ SALMONELLA Supplement 2x50 ml
80047	MULLER KAUFFMANN 3X50 ml (Iodio/B.G.0.1%)
80053	VITAMIN K 1% supplement 5 x 5 ml
80056	LEGIONELLA growth supplement 10 vials
80057	H2O2 REAGENT 1 x 10 ml
80060	DECONTAM-KIT
80110	UREA 40% 6X100 ml
80219	EGG YOLK emulsion 4 x 50 ml
80252	ENTEROSYSTEM 18R REAGENT 100/200 Test
80253	COPRO SYSTEM REAGENTS (antisera)
80257	LISTERIA SYSTEM 18R -REAG 100/200 Test
80258	AF GENITAL SYSTEM REAGENT
80260	IDENTIF. SYSTEM-REAGENT 100/200 Test
80271	KOVAC'S REAGENT 4x25 ml
80272	FERRIC CHLORIDE 10% 2x 25 ml
80273	NINHYDRIN 7% 10 ml
80275	MIF COLOR KIT 50 Test
80276	ZIEHL-NEELSEN 3 x 250 ml
80277	METHYLENE BLUE Solution 250 ml
80279	VASELINE OIL 4 x 50 ml
80280	V.P. TEST-Reagent 10x10ml
80281	V.P. TEST EP 10 x 10 mL
80282	Kit May-Grünwald Giemsa
80290	SAFRANIN SOLUTION 1000 ml
80291	POTASSIUM TELLURITE 3.5% suppl.5x10 ml
80292	UREA 40 % supplement 10 x 5 ml
80293	GRAM COLOR KIT 4 x 250 ml
80294	KIT COLOR ALBERT 2 x 250 ml
80295	DECOLOURIZING SOLUTION 1000 ml
80296	LUGOL PVP SOLUTION 1000 ML
80298	LUGOL PVP SOLUTION 250 ml
80299	CRYSTAL VIOLET SOLUTION 1000 ml
80300	TTC 1% supplement 5 x 10 ml
80350	ANTIBIOTIC TEST

80351	RAPID ANTIBIOTIC TEST 50 Test
80380	KINYOUN COLOR KIT 2 x 250 ml
80390	FIXUR 1
80409	IODINE SOLUTION 10 x 10 ml
80410	XLT 4 SUPPLEMENT 4 x 50 ml
80422	POTASSIUM TELLURITE 1% Supplement 10 x 10 ml
80430	TTC 1% supplement 10 x 10 ml
80431	TWEEN 80 Supplement 4 x 50 ml
80453	VITAMIN K 1% SUPPLEMENT 10 x 5 ml
81001	AMPICILLIN supplement 10 vials
81002	LEGIONELLA (BMPA) supplement 10 vials
81003	BRUCELLA supplement 10 vials
81004	CAMPYLOBACTER Preston supplem 10 vials
81006	CN (Pseudomonas) supplement 10 vials
81007	CLOSTRIDIUM difficile suppleme 10 vials
81008	LEGIONELLA (GVPC) supplement 10 vials
81009	IODINE solution 5 x 10 ml
81011	CLOSTRIDIUM perfrigens (T.S.C.) sup.10 v.
81012	LCAT supplement 10 vials
81013	BORDETELLA supplement 10 vials
81014	HAEMOPHILUS supplement 10 vials
81015	CAMPYLOBACTER Butzler supplement 10 vials
81016	BACILLUS Cereus Supplement 10 Vials
81017	CHLORAMPHENICOL supplement 10 vials
81019	LEGIONELLA (MWY) supplement 10 vials
81020	MMG Supplement 10 vials
81022	V.C.N. supplement 10 vials
81023	VITALEX growth supplement 10 vials
81024	V.C.N.T. supplement 10 vials
81025	DERMATOPHYTE supplement 10 vials
81026	LISTERIA PALCAM supplement 10 vials
81032	ONPG 1.5% Supplement 10 vials
81033	GENTAMYCIN supplement 10 vials
81035	MIDDLEBROOK 7H 10 supplement 4 x 50 ml
81036	CAMPYLOBACTER KARMALI Supplement 10 vials
81037	CAMPYLOBACTER CCDA supplement 10 vials
81038	CAMPYLOBACTER C.T.V.N. Supplement 10 vials
81039	YERSINIA supplement 10 vials
81040	GARDNERELLA vaginalis Supplement 10vials
81041	V.C.A.T. supplement 10 vials
81042	LISTERIA FRASER supplement (1125mg)10 vials
81048	CNA (Staf/Strep) supplemet 10 vials
81050	CAMPYLOBACTER growth supplement 10 vials
81051	CAMPYLOBACTER Blaser Wang supp 10 vials
81054	SCHAEDLER supplement 10 vials
81055	CAMPYLOBACTER Skirrow supple 10 vials
81056	LEGIONELLA (BCYE) growth suppl.10 vials
81062	VANCOMYCIN Supplement for VRE 10 vials
81077	CAMPYLOBACTER C.T.V.A. Supplement 10 vials
81078	CHROMATIC™ MRSA Supplement
81079	UREA-ARGININE SCREEN
81082	CEFIXIME TELLURITE Supplement
81083	MEROPENEM Supplement
81084	NEOMYCIN Solution
81085	CHROMATIC™ STAPH AUREUS Supplement
81086	VCC MOD SELECTIVE Supplement
81088	CHROMATIC™ CRE Supplement
81089	Chromatic™ ESBL Supplement
81090	CHROMATIC™ ESBL+AmpC Supplement
81091	Legionella BCYE Growth Supplement w/o L-Cysteine

81098	D-Cycloserine 4-MUP Supplement
85501	COPRO KIT (SELENITE BROTH)
85502	COPRO KIT 2 (SALMONELLA BROTH)
87001	KOVAC'S Reagent
87002	VP (NaOH) Reagent
87003	CATALASE Reagent
87004	PHENYLALANINE Reagent
87005	OXIDASE Reagent
87006	Vaseline Oil
87007	VP (KOH) Reagent
87008	Lactophenol Cotton Blue Droppers
87009	Methyl Red Droppers
87101	GRAM COLOR KIT
88003	OXIDASE TEST SWABS 30 Test
88004	OXIDASE TEST DISCS 30 Discs
88005	O.N.P.G. TEST 30 Test
88006	E.COLI TEST 30 Test
88007	HIPPURATE TEST 30 Test
88008	AESCULIN BILE TEST 30 Test
88009	NITRATI TEST 30 Test 30 Test
88010	LISTERIA MONO TEST 20 Test
88011	UREA RAPID TEST 30 Test
88013	H2S RAPID TEST 30 Test
88014	LYSINE DECARBOXYLASE TEST 30 Test
88015	ORNITHINE DECARBOXYLASE TEST 30 Test
88016	ARGININE DECARBOXYLASE TEST 30 Test
88017	INDOLE TEST 30 Test
88020	S.F. RAPID TEST 30 Test
88021	CAMP TEST-S 30 Test
88023	CATALASI/OXY TEST 30 Test
88024	UREA / INDOLO TEST 30 Test
88027	CAMP TEST-R 30 Test
88028	PEPTIDASE A TEST 30 Test
88029	OXIDASE TEST STICKS 50 Test
88029N	Oxidase Test Stick
88030	COAGULASE TEST 40 Test
88031	GRAM TEST STICK 30 Test
88032	INDOLO TEST STICK 30 Test
88033	BETA LACTAMASE STICKS 30 Test
88034	PEPTIDASE A STICKS 30 Test
88035	VP TEST KIT
88040	C 390 50 Discs
88041	Brilliant Green 100 µg
88042	CITRATE TEST
88043	O129 Disc 150 µg
88044	O129 Disc 10 µg
88105	O.N.P.G. TEST
88201	GALACTOSE TEST 30 Test
88202	GLUCOSE TEST 30 Test
88203	LACTOSE TEST 30 Test
88204	MALTOSE TEST 30 Test
88205	RAFFINOSE TEST 30 Test
88206	SUCROSE TEST 30 Test
88207	ARABITOL TEST 30 Test
88208	ADONITOL TEST 30 Test
88209	ARABINOSE TEST 30 Test
88210	DULCITOL TEST 30 Test
88211	INOSITOL TEST 30 Test
88212	INULIN TEST 30 Test
88213	LEVULOSE TEST 30 Test

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS
Rev. 32.1 del 07.06.2017

88214	MANNITOL TEST 30 Test
88215	MANNOSE TEST 30 Test
88216	RHAMNOSE TEST 30 Test
88217	SALICIN TEST 30 Test
88218	SORBITOL TEST 30 Test
88219	TREHALOSE TEST 30 Test
88220	XYLOSE TEST 30 Test
89021	CultiControl™ Aspergillus brasiliensis ATCC® 16404™
89022	CultiControl™ Bacillus Cereus ATCC® 11778™
89023	CultiControl™ Bacillus subtilis ATCC® 6633™
89024	CultiControl™ Candida albicans ATCC® 10231™
89025	CultiControl™ Enterococcus faecalis ATCC® 19433™
89026	CultiControl™ Enterococcus faecalis ATCC® 29212™
89027	CultiControl™ Escherichia coli ATCC® 25922™
89028	CultiControl™ Escherichia coli ATCC® 8739™
89029	CultiControl™ Listeria innocua ATCC® 33090™
89030	CultiControl™ Listeria ivanovii ATCC® 19119™
89031	CultiControl™ Listeria monocytogenes ATCC® 19111™
89032	CultiControl™ Proteus mirabilis ATCC® 25933™
89033	CultiControl™ Pseudomonas aeruginosa ATCC® 27853™
89034	CultiControl™ Pseudomonas aeruginosa ATCC® 9027™
89035	CultiControl™ Rhodococcus equi ATCC® 6939™
89036	CultiControl™ Saccharomyces cerevisiae ATCC® 9763™
89037	CultiControl™ Salmonella typhimurium ATCC® 14028™
89038	CultiControl™ Shigella flexneri ATCC® 12022™
89039	CultiControl™ Staphylococcus aureus NCTC 12493
89040	CultiControl™ Staphylococcus aureus ATCC® 25923™
89041	CultiControl™ Staphylococcus aureus ATCC® 29213™
89042	CultiControl™ Staphylococcus aureus ATCC® 33862™
89043	CultiControl™ Staphylococcus aureus ATCC® 43300™
89044	CultiControl™ Staphylococcus aureus ATCC® 6538™
89045	CultiControl™ Staphylococcus epidermidis ATCC® 12228™
89046	CultiControl™ Streptococcus agalactiae ATCC® 13813™
89047	CultiControl™ Streptococcus pneumoniae ATCC® 49619™
89048	CultiControl™ Streptococcus pyogenes ATCC® 19615™
89049	CultiControl™ Proteus mirabilis ATCC® 12453™
89050	CultiControl™ Yersinia enterocolitica ATCC® 9610™
89051	CultiControl™ Listeria monocytogenes ATCC® 19115™
89052	CultiControl™ Legionella pneumophila subsp. pneumophila ATCC® 33152™
89053	CultiControl™ Clostridium perfringens ATCC® 13124™
89054	CultiControl™ Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 13311™
89055	CultiControl™ Lactobacillus paracasei subsp. paracasei ATCC ® BAA-52™
89056	CultiControl™ Vibrio parahaemolyticus ATCC ® 17802™
89057	CultiControl™ Aspergillus fumigatus ATCC ® 204305™
89058	CultiControl™ Shigella sonnei ATCC ® 25931™
89059	CultiControl™ Clostridium sordellii ATCC ® 9714™
89060	CultiControl™ Listeria monocytogenes ATCC ® 7644™
89061	CultiControl™ Streptococcus bovis ATCC ® 33317™
89062	CultiControl™ Streptococcus mutans ATCC ® 25175™
89063	CultiControl™ Streptococcus pneumoniae ATCC ® 27336™
89064	CultiControl™ Streptococcus sanguinis ATCC ® 10556™
89065	CultiControl™ Enterobacter cloacae subsp. cloacae ATCC ® BAA-1143™
89066	CultiControl™ Enterococcus faecalis ATCC ® 49532™
89067	CultiControl™ Enterococcus faecalis ATCC ® 49533™
89068	CultiControl™ Escherichia coli NCTC 11954™
89069	CultiControl™ Klebsiella pneumoniae ATCC ® BAA-2146™

89070	CultiControl™ Klebsiella pneumoniae subsp. pneumoniae ATCC ® 700603™
89071	CultiControl™ Candida parapsilosis ATCC ® 22019™
89072	CultiControl™ Candida albicans ATCC ® 90028™
89073	CultiControl™ Issatchenkia orientalis ATCC ® 6258™
89074	CultiControl™ Neisseria gonorrhoeae ATCC ® 19424™
89075	CultiControl™ Neisseria gonorrhoeae ATCC ® 31426™
89076	CultiControl™ Haemophilus influenzae ATCC® 49766™
89077	CultiControl™ Haemophilus influenzae ATCC® 49247™
89078	CultiControl™ Bacteroides fragilis ATCC® 25285™
89079	CultiControl™ Bacteroides thetaiotaomicron ATCC® 29741™
89080	CultiControl™ Lactobacillus acidophilus ATCC ® 4356™
89081	CultiControl™ Lactobacillus leichmannii ATCC ® 4797™
89082	CultiControl™ Lactococcus lactis ATCC ® 19435™
89083	CultiControl™ Proteus mirabilis ATCC ® 29906™
89084	CultiControl™ Salmonella enterica subsp. enterica serovar Enteritidis ATCC ® 13076™
89085	CultiControl™ Listeria monocytogenes ATCC ® 13932™
89086	CultiControl™ Campylobacter jejuni ATCC ® 33291™
89087	CultiControl™ Klebsiella pneumoniae ATCC ® BAA-1706™
89088	CultiControl™ Klebsiella pneumoniae ATCC ® BAA-1705™
89089	CultiControl™ Klebsiella pneumoniae subsp. pneumoniae ATCC ® 13883™
89090	CultiControl™ Clostridium difficile ATCC ® 9689™
89091	CultiControl™ Aggregatibacter aphrophilus ATCC ® 7901™
89092	CultiControl™ Staphylococcus aureus subsp. aureus ATCC® 700698™
89093	CultiControl™ Staphylococcus aureus subsp. aureus ATCC ® 700699™
89094	CultiControl™ Plesiomonas shigelloides ATCC ® 14029™
89095	CultiControl™ Clostridium sporogenes ATCC ® 19404™
89096	CultiControl™ Micrococcus luteus ATCC ® 10240™
89097	CultiControl™ Candida tropicalis ATCC ® 750™
89098	CultiControl™ Candida krusei ATCC ® 14243™
89099	CultiControl™ Gardnerella vaginalis ATCC ® 14018™
89100	CultiControl™ Lactobacillus fermentum ATCC ® 9338™
89101	CultiControl™ Listeria grayi ATCC ® 25401™
89102	CultiControl™ Micrococcus luteus ATCC ® 4698™
89103	CultiControl™ Moraxella (Branhamella) catarrhalis ATCC ® 25238™
89104	CultiControl™ Neisseria gonorrhoeae ATCC ® 49226™
89105	CultiControl™ Proteus mirabilis ATCC ® 35659™
89106	CultiControl™ Proteus mirabilis ATCC ® 43071™
89107	CultiControl™ Proteus vulgaris ATCC ® 6380™
89108	CultiControl™ Pseudomonas aeruginosa ATCC ® 10145™
89109	CultiControl™ Pseudomonas aeruginosa ATCC ® 15442™
89110	CultiControl™ Pseudomonas fluorescens ATCC ® 13525™
89111	CultiControl™ Bacteroides ovatus ATCC ® 8483™
89112	CultiControl™ Clostridium histolyticum ATCC ® 19401™
89113	CultiControl™ Bacteroides fragilis ATCC ® 23745™
89114	CultiControl™ Actinomyces odontolyticus ATCC ® 17929™
89115	CultiControl™ Enterococcus faecalis ATCC ® 33186™
89116	CultiControl™ Staphylococcus aureus subsp. aureus ATCC ® 33591™
89117	CultiControl™ Enterococcus faecium ATCC ® 51559™
89118	CultiControl™ Fusobacterium nucleatum ATCC ® 25586™
89119	CultiControl™ Aeromonas hydrophila ATCC ® 7966™
89120	CultiControl™ Haemophilus influenzae ATCC ® 10211™
89121	CultiControl™ Serratia marcescens ATCC ® 8100™
89122	CultiControl™ Neisseria gonorrhoeae ATCC ® 49981™

89123	CultiControl™ Haemophilus haemolyticus ATCC ® 33390™
89124	CultiControl™ Haemophilus influenzae ATCC ® 33533™
89125	CultiControl™ Providencia stuartii ATCC ® 33672™
89126	CultiControl™ Staphylococcus haemolyticus ATCC ® 29970™
89127	CultiControl™ Streptococcus anginosus ATCC ® 33397™
89128	CultiControl™ Streptococcus dysgalactiae subsp.equisimilis ATCC ® 12388™
89129	CultiControl™ Streptococcus mitis ATCC ® 6249™
89130	CultiControl™ Streptococcus pyogenes ATCC ® 49399™
89131	CultiControl™ Streptococcus salivarius ATCC® 13419™
89132	CultiControl™ Salmonella enterica subsp. enterica serovar Abony NCTC 6017
89133	CultiControl™ Staphylococcus xylosus ATCC ® 29971™
89134	CultiControl™ Prevotella melaninogenica ATCC ® 25845™
89135	CultiControl™ Propionibacterium acnes ATCC® 11827™
89136	CultiControl™ Haemophilus influenzae NCTC 8468
89137	CultiControl™ Staphylococcus aureus subsp. aureus ATCC ® 19095™
89138	CultiControl™ Cronobacter sakazakii ATCC ® 29544™
89139	CultiControl™ Bordetella bronchiseptica ATCC ® 4617™
89140	CultiControl™ Trichophyton mentagrophytes ATCC ® 9533™
89141	CultiControl™ Acinetobacter baumannii ATCC ® BAA-747™
89144	CultiControl™ Vibrio alginolyticus ATCC ® 17749™
89145	CultiControl™ Campylobacter jejuni subsp. jejuni ATCC ® 33560™
89146	CultiControl™ Citrobacter freundii ATCC ® 43864™
89147	CultiControl™ Burkholderia cepacia ATCC ® 25416™
89148	CultiControl™ Listeria monocytogenes ATCC ® 35152™
89149	CultiControl™ Stenotrophomonas maltophilia ATCC® 13637™
89151	CultiControl™ Legionella pneumophila subsp. fraseri ATCC ® 33156™
89152	CultiControl™ Enterococcus faecium ATCC ® 6057™
89153	CultiControl™ Staphylococcus saprophyticus ATCC ® 15305™
89154	CultiControl™ Salmonella enterica subsp. arizonae ATCC ® 13314™
89155	CultiControl™ Bacillus cereus ATCC ® 10876™
89156	CultiControl™ Enterobacter aerogenes ATCC ® 13048™
89158	CultiControl™ Cronobacter muytjensii ATCC ® 51329™
89159	CultiControl™ Citrobacter freundii ATCC ® 8090™
89160	CultiControl™ Haemophilus influenzae ATCC ® 19418™
89162	CultiControl™ Porphyromonas gingivalis ATCC ® 33277™
89163	CultiControl™ Escherichia coli ATCC ® 35218™
89164	CultiControl™ Neisseria meningitidis ATCC ® 13090™
89165	CultiControl™ Peptostreptococcus anaerobius ATCC ® 27337™
89166	CultiControl™ Burkholderia cepacia ATCC ® 25608™
89167	CultiControl™ Campylobacter jejuni subsp. jejuni ATCC ® 29428™
89168	CultiControl™ Yersinia enterocolitica subsp. enterocolitica ATCC ® 23715™
89170	CultiControl™ Staphylococcus aureus subsp. aureus ATCC ® BAA-44™
89171	CultiControl™ Enterococcus faecium ATCC ® 19434™
89172	CultiControl™ Enterococcus faecium ATCC ® BAA-2319™
89173	CultiControl™ Enterococcus faecalis ATCC ® 51299™
89174	CultiControl™ Acinetobacter baumannii ATCC ® 19606™
89175	CultiControl™ Streptococcus pneumoniae ATCC ® 700671™
89176	CultiControl™ Haemophilus influenzae ATCC ® 33391™
89177	CultiControl™ Candida albicans ATCC ® 18804™
89178	CultiControl™ Candida albicans ATCC ® 64124™
89179	CultiControl™ Shigella boydii ATCC ® 9207™

89180	CultiControl™ Shigella sonnei ATCC ® 9290™
89181	CultiControl™ Staphylococcus aureus subsp. aureus ATCC ® 49476™
89182	CultiControl™ Staphylococcus aureus subsp. aureus ATCC ® 9144™
89183	CultiControl™ Candida albicans ATCC ® 14053™
89184	CultiControl™ Escherichia coli ATCC ® 11303™
89186	CultiControl™ Streptococcus salivarius subsp. thermophilus ATCC ® 19258™
89189	CultiControl™ Nocardia brasiliensis ATCC ® 19296™
89191	CultiControl™ Serratia marcescens ATCC ® 14756™
89192	CultiControl™ Klebsiella pneumoniae subsp. pneumoniae ATCC ® 4352™
89193	CultiControl™ Bacteroides ovatus ATCC ® BAA-1296™
89194	CultiControl™ Stenotrophomonas maltophilia ATCC ® 17666™
89195	CultiControl™ Enterococcus casseliflavus ATCC ® 700327™
89196	CultiControl™ Eikenella corrodens ATCC ® BAA-1152™
89197	CultiControl™ Salmonella enterica subsp. enterica serovar Typhimurium ATCC ® 49416™
89198	CultiControl™ Shigella flexneri ATCC ® 9199™
89199	CultiControl™ Klebsiella pneumoniae subsp. pneumoniae ATCC ® 31488™
89200	CultiControl™ Enterobacter cloacae ATCC ® 49141™
9001	NALIDIXIC ACID NA 30 µg 250 Discs
9001/1	NALIDIXIC ACID NA 30 µg 50 Discs
9002	Oxolinic acid OA 2 µg 250 Discs
9002/1	Oxolinic acid OA 2 µg 50 Discs
9003	PIPEMIDIC ACID PI 20 µg 250 Discs
9003/1	PIPEMIDIC ACID PI 20 µg 50 Discs
9004	AMIKACIN AK 30 µg 250 Discs
9004/1	AMIKACIN AK 30 µg 50 Discs
9005	AMOXICILLIN AML 30 µg 250 Discs
9005/1	AMOXICILLIN AML 30 µg 50 Discs
9006	AMPICILLIN AMP 10 µg 250 Discs
9006/1	AMPICILLIN AMP 10 µg 50 Discs
9007	AZLOCILLIN AZL 75 µg 250 Discs
9007/1	AZLOCILLIN AZL 75 µg 50 Discs
9008	AZTREONAM ATM 30 µg 250 Discs
9008/1	AZTREONAM ATM 30 µg 50 Discs
9009	CARBENICILLIN CAR 100 µg 250 Discs
9009/1	CARBENICILLIN CAR 100 µg 50 Discs
9010	CEFACLOR CEC 30 µg 250 Discs
9010/1	CEFACLOR CEC 30 µg 50 Discs
9011	CEPHALEXIN CL 30 µg 250 Discs
9011/1	CEPHALEXIN CL 30 µg 50 Discs
9013	CEPHALOTHIN KF 30 µg 250 Discs
9013/1	CEPHALOTHIN KF 30 µg 50 Discs
9014	CEFAMANDOLE MA 30 µg 250 Discs
9014/1	CEFAMANDOLE MA 30 µg 50 Discs
9015	CEFAZOLIN KZ 30 µg 250 Discs
9015/1	CEFAZOLIN KZ 30 µg 50 Discs
9016	CEFOPERAZONE CFP 30 µg 250 Discs
9016/1	CEFOPERAZONE CFP 30 µg 50 Discs
9017	CEFOTAXIME CTX 30 µg 250 Discs
9017/1	CEFOTAXIME CTX 30 µg 50 Discs
9018	CEFOXITIN FOX 30 µg 250 Discs
9018/1	CEFOXITIN FOX 30 µg 50 Discs
9019	CEFTAZIDIME CAZ 30 µg 250 Discs
9019/1	CEFTAZIDIME CAZ 30 µg 50 Discs
9020	CEFTRIAXONE CRO 30 µg 250 Discs
9020/1	CEFTRIAXONE CRO 30 µg 50 Discs
9021	CEFUROXIME CXM 30 µg 250 Discs
9021/1	CEFUROXIME CXM 30 µg 50 Discs

PRODOTTI CE DI LIBERA VENDITA / FREE SALE CE PRODUCTS
Rev. 32.1 del 07.06.2017

9022	CHLORAMPHENICOL C 30 µg 250 Discs
9022/1	CHLORAMPHENICOL C 30 µg 50 Discs
9023	COLISTIN SULFATE CS 10 µg 250 Discs
9023/1	COLISTIN SULFATE CS 10 µg 50 Discs
9024	ERYTHROMYCIN E 15 µg 250 Discs
9024/1	ERYTHROMYCIN E 15 µg 50 Discs
9025	FOSFOMYCIN FOS 50 µg 250 Discs
9025/1	FOSFOMYCIN FOS 50 µg 50 Discs
9026	GENTAMICIN GN 10 µg 250 Discs
9026/1	GENTAMICIN GN 10 µg 50 Discs
9027	KANAMYCIN K 30 µg 250 Discs
9027/1	KANAMYCIN K 30 µg 50 Discs
9028	LINCOMYCIN MY 2 µg 250 Discs
9028/1	LINCOMYCIN MY 2 µg 50 Discs
9029	METHICILLIN MET 5 µg 250 Discs
9029/1	METHICILLIN MET 5 µg 50 Discs
9030	MINOCYCLINE MN 30 µg 250 Discs
9030/1	MINOCYCLINE MN 30 µg 50 Discs
9031	AMPICILLIN-SULBACTAM AMS 20 µg 250 Discs
9031/1	AMPICILLIN-SULBACTAM AMS 20µg 50 DISCS
9032	NEOMYCIN N 30 µg 250 Discs
9032/1	NEOMYCIN N 30 µg 50 Discs
9033	NETILMICIN NET 30 µg 250 Discs
9033/1	NETILMICIN NET 30 µg 50 Discs
9034	NITROFURANTOIN F 300 µg 250 Discs
9034/1	NITROFURANTOIN F 300 µg 50 Discs
9035	NORFLOXACIN NOR 10µg 250 Discs
9035/1	NORFLOXACIN NOR 10 µg 50 Discs
9036	OXACILLIN OX 1µg 250 Discs
9036/1	OXACILLIN OX 1 µg 50 Discs
9037	PENICILLIN G P 10 IU 250 Discs
9037/1	PENICILLIN G P 10 IU 50 Discs
9038	PIPERACILLIN PRL 100 µg 250 Discs
9038/1	PIPERACILLIN PRL 100 µg 50 Discs
9039	RIFAMPICIN RD 30 µg 250 Discs
9039/1	RIFAMPICIN RD 30 µg 50 Discs
9040	STREPTOMYCIN S 10 µg 250 Discs
9040/1	STREPTOMYCIN S 10 µg 50 Discs
9041	SULFAFURAZOLE SF 300 µg 250 Discs
9041/1	SULFAFURAZOLE SF 300 µg 50 Discs
9042	TRIMETHOPRIM-SULFAMETHOXAZOLE SXT 25 µg 250 Discs
9042/1	TRIMETHOPRIM-SULFAMETHOXAZOLE SXT 25 µg 50 Discs
9043	TETRACYCLINE TE 30 µg 250 Discs
9043/1	TETRACYCLINE TE 30 µg 50 Discs
9044	TOBRAMYCIN TOB 10 µg 250 Discs
9044/1	TOBRAMYCIN TOB 10 µg 50 Discs
9045	VANCOMYCIN VA 30 µg 250 Discs
9045/1	VANCOMYCIN VA 30 µg 50 Discs
9046	SISOMYCIN SIS 30µg 250 Discs
9046/1	SISOMYCIN SIS 30 µg 50 Discs
9047	CLINDAMYCIN CD 2 µg 250 Discs
9047/1	CLINDAMYCIN CD 2 µg 50 Discs
9048	AMOXICILLIN-CLAVULANIC ACID AUG 30 µg 250 Discs
9048/1	AMOXICILLIN-CLAVULANIC ACID AUG 30 µg 50 Discs
9049	FUSIDIC ACID FC 10 µg 250 Discs
9049/1	FUSIDIC ACID FC 10 µg 50 Discs
9050	TEICOPLANIN TEC 30 µg 250 Discs
9050/1	TEICOPLANIN TEC 30 µg 50 Discs
9051	BACITRACIN BA 10 IU 250 Discs

9051/1	BACITRACIN BA 10 IU 50 Discs
9052	CEFADROXIL CDX 30 µg 250 Discs
9052/1	CEFADROXIL CDX 30 µg 50 Discs
9053	CEFSULODIN CSD 30 µg 250 Discs
9053/1	CEFSULODIN CSD 30 µg 50 Discs
9054	CEFTIZOXIME CZX 30 µg 250 Discs
9054/1	CEFTIZOXIME CZX 30 µg 50 Discs
9055	CEPHRADINE CE 30 µg 250 Discs
9055/1	CEPHRADINE CE 30 µg 50 Discs
9056	CIPROFLOXACIN CIP 5 µg 250 Discs
9056/1	CIPROFLOXACIN CIP 5 µg 50 Discs
9057	CINOXACIN CIN 100 µg 250 Discs
9057/1	CINOXACIN CIN 100 µg 50 Discs
9058	CLOXACILLIN CX 5 µg 250 Discs
9058/1	CLOXACILLIN CX 5 µg 50 Discs
9059	DOXYCYCLINE DXT 30 µg 250 Discs
9059/1	DOXYCYCLINE DXT 30 µg 50 Discs
9060	ROXITROMYCIN RXT 15 µg 250 Discs
9060/1	ROXITROMYCIN RXT 15 µg 50 Discs
9061	ERTAPENEM ETP 10 µg 250 Discs
9061/1	ERTAPENEM ETP 10 µg 50 Discs
9062	MEZLOCILLIN MEZ 75 µg 250 Discs
9062/1	MEZLOCILLIN MEZ 75 µg 50 Discs
9063	NOVOBIOCIN NO 30 µg 250 Discs
9063/1	NOVOBIOCIN NO 30 µg 50 Discs
9064	CEFPODOXIME PX 10 µg 250 Discs
9064/1	CEFPODOXIME PX 10 µg 50 Discs
9065	OXYTETRACYCLINE OT 30 µg 250 Discs
9065/1	OXYTETRACYCLINE OT 30 µg 50 Discs
9066	POLYMYXIN B PB 100 IU 250 Discs
9066/1	POLYMYXIN B PB 100 IU 50 Discs
9067	SPECTINOMYCIN SPC 100 µg 250 Discs
9067/1	SPECTINOMYCIN SPC 100 µg 50 Discs
9068	MEROPENEM MRP 10 µg 250 Discs
9068/1	MEROPENEM MRP 10 µg 50 Discs
9069	FLUCONAZOLE FLU 100 µg 250 Discs
9069/1	FLUCONAZOLE FLU 100 µg 50 Discs
9070	TICARCILLIN TC 75 µg 250 Discs
9070/1	TICARCILLIN TC 75 µg 50 Discs
9071	AMPHOTERICIN B AMB 20 µg 250 Discs
9071/1	AMPHOTERICIN B AMB 20 µg 50 Discs
9072	ECONAZOLE ECN 10 µg 250 Discs
9072/1	ECONAZOLE ECN 10 µg 50 Discs
9073	FLUCYTOSINE AFY 1 µg 250 Discs
9073/1	FLUCYTOSINE AFY 1 µg 50 Discs
9074	GRISEOFULVIN AGF 10 µg 250 Discs
9074/1	GRISEOFULVIN AGF 10 µg 50 Discs
9075	KETOCONAZOLE KCA 10 µg 250 Discs
9075/1	KETOCONAZOLE KCA 10 µg 50 Discs
9076	METRONIDAZOLE MTZ 5 µg 250 Discs
9076/1	METRONIDAZOLE MTZ 5 µg 50 Discs
9077	MICONAZOLE MCL 10 µg 250 Discs
9077/1	MICONAZOLE MCL 10 µg 50 Discs
9078	NYSTATIN NY 100 IU 250 Discs
9078/1	NYSTATIN NY 100 IU 50 Discs
9079	IMIPENEM IMI 10 µg 250 Discs
9079/1	IMIPENEM IMI 10 µg 50 Discs
9080	OFLOXACIN OFX 5 µg 250 Discs
9080/1	OFLOXACIN OFX 5 µg 50 Discs
9081	CEFOTETAN CTT 30 µg 250 Discs

9081/1	CEFOTETAN CTT 30 µg 50 Discs
9082	TYLOSIN TY 30 µg 250 Discs
9082/1	TYLOSIN TY 30 µg 50 Discs
9083	TRIMETHOPRIM TM 2.5 µg 250 Discs
9083/1	TRIMETHOPRIM TM 2.5 µg 50 Discs
9084	SULFAMETHOXAZOLE SMX 50 µg 250 Discs
9084/1	SULFAMETHOXAZOLE SMX 50µg 50 Discs
9085	Imipenem + Phenylboronic acid IMI + BO 250 Discs
9085/1	Imipenem + Phenylboronic acid IMI + BO 50 Discs
9086	Imipenem + Cloxacillin IMI + CL 250 Discs
9086/1	Imipenem + Cloxacillin IMI + CL 50 Discs
9087	EDTA ED 250 Discs
9087/1	EDTA ED 50 Discs
9088	SPIRAMYCIN SP 100 µg 250 Discs
9088/1	SPIRAMYCIN SP 100 µg 50 Discs
9089	CEFIXIME CFM 5 µg 250 Discs
9089/1	CEFIXIME CFM 5 µg 50 Discs
9090	Daptomycin DAP 30 µg 250 Discs
9090/1	Daptomycin DAP 30 µg 50 Discs
9091	PEFLOXACIN PEF 5 µg 250 Discs
9091/1	PEFLOXACIN PEF 5 µg 50 Discs
9093	DICLOXACILLIN DCX 1 µg 250 Discs
9093/1	DICLOXACILLIN DCX 1 µg 50 Discs
9094	TIAMULIN T 30 µg 250 Discs
9094/1	TIAMULIN T 30 µg 50 Discs
9095	IMIPENEM/CILASTATIN IMC 20 µg 250 Discs
9095/1	IMIPENEM/CILASTATIN IMC 20 µg 50 Discs
9096	TICARCILLIN-CLAVULINC ACID TTC 65 µg 250 Discs
9096/1	TICARCILLIN-CLAVULINC ACID TTC 85 µg 50 Discs
9097	CLOTRIMAZOLE CLO 50 µg 250 Discs
9097/1	CLOTRIMAZOLE CLO 50 µg 50 Discs
9098	CLARITHROMYCIN CLR 15 µg 250 Discs
9098/1	CLARITHROMYCIN CLR 15 µg 50 Discs
9099	FURAZOLIDON FR 50 µg 250 Discs
9099/1	FURAZOLIDON FR 50 µg 50 Discs
9100	PIPERACILLIN-TAZOBACTAM TZP 110 µg 250 Discs
9100/1	PIPERACILLIN-TAZOBACTAM TZP 110 µg 50 Disc
9101	CEFTIBUTEN CTB 30 µg 250 Discs
9101/1	CEFTIBUTEN CTB 30 µg 50 Discs
9102	LEVOFLOXACIN LEV 5 µg 250 Discs
9102/1	LEVOFLOXACIN LEV 5 µg 50 Discs
9103	MOXIFLOXACIN MOX 5 µg 250 Discs
9103/1	MOXIFLOXACIN MOX 5 µg 50 Discs
9104	CEFEPIME FEP 30 µg 250 Discs
9104/1	CEFEPIME FEP 30 µg 50 Discs
9105	AZITHROMYCIN AZM 15 µg 250 Discs
9105/1	AZITHROMYCIN AZM 15 µg 50 Discs
9106	MYOKAMYCIN MK 15 µg 250 Discs
9106/1	MYOKAMYCIN MK 15 µg 50 Discs
9107	ITRACONAZOLE ITC 50 µg 250 Discs
9107/1	ITRACONAZOLE ITC 50 µg 50 Discs
9108	CEFOPERAZONE CFP 75 µg 250 Discs
9108/1	CEFOPERAZONE CFP 75 µg 50 Discs
9109	FOSFOMYCIN (includes G-6-p) FOS 200 µg 250 Discs
9109/1	FOSFOMYCIN (includes G-6-p) FOS 200 µg 50 Discs
9110	TRIMETHOPRIM TM 5 µg 250 Discs
9110/1	TRIMETHOPRIM TM 5 µg 50 Discs
9111	FUSIDIC ACID FC 30 µg 250 Discs
9111/1	FUSIDIC ACID FC 30 µg 50 Discs
9112	CEFPROZIL CPR 30 µg 250 Discs

9112/1	CEFPROZIL CPR 30 µg 50 Discs
9113	LOMEFLOXACIN LOM 10 µg 250 Discs
9113/1	LOMEFLOXACIN LOM 10 µg 50 Discs
9115	AMPICILLIN AMP 2 µg 250 Discs
9115/1	AMPICILLIN AMP 2 µg 50 Discs
9116	LINCOMYCIN MY 15 µg 250 Discs
9116/1	LINCOMYCIN MY 15 µg 50 Discs
9117	NOVOBIOCIN NO 5 µg 250 Discs
9117/1	NOVOBIOCIN NO 5 µg 50 Discs
9118	RIFAMPICIN RD 5 µg 250 Discs
9118/1	RIFAMPICIN RD 5µg 50 Discs
9119	METRONIDAZOLE MTZ 50 µg 250 Discs
9119/1	METRONIDAZOLE MTZ 50 µg 50 Discs
9120	POLYMYXIN B PB 300 UI 250 Discs
9120/1	POLYMYXIN B PB 300 UI 50 Discs
9121	FOSFOMYCIN (includes G-6-p) FOS 100 µg 250 Discs
9121/1	FOSFOMYCIN (includes G-6-p) FOS 100 µg 50 Discs
9122	AMPLICLOX (Ampicillin-Cloxacillin) ACL 30 µg 250 Discs
9122/1	AMPLICLOX (Ampicillin-Cloxacillin) ACL 30 µg 50 Discs
9124	GENTAMICIN CN 120 µg 250 Discs
9124/1	GENTAMICIN CN 120 µg 50 Discs
9125	GENTAMICIN CN 30 µg 250 Discs
9125/1	GENTAMICIN CN 30 µg 50 Discs
9126	SULFONAMIDE S3 300 µg 250 Discs
9126/1	SULFONAMIDE S3 300 µg 50 Discs
9127	PENICILLIN G P 2 IU 250 Discs
9127/1	PENICILLIN G P 2 IU 50 Discs
9128	CHLORAMPHENICOL C 10 µg 250 Discs
9128/1	CHLORAMPHENICOL C 10 µg 50 Discs
9129	SULBACTAM SU 20µg 250 Discs
9129/1	SULBACTAM SU 20µg 50 Discs
9130	PENICILLIN G P 1 IU 250 Discs
9130/1	PENICILLIN G P 1 IU 50 Discs
9131	SODIUM FUSIDATE FC 30 250 Discs
9132	SULFAPRIM SXT 50 µg 250 Discs
9132/1	SULFAPRIM SXT 50 µg 50 Discs
9133	AMOXICILLIN AML 10 µg 250 Discs
9133/1	AMOXICILLIN AML 10 µg 50 Discs
9134	CEFOTAXIME CTX 75 µg 250 Discs
9134/1	CEFOTAXIME CTX 75 µg 50 Discs
9135	OXACILLIN OX 5µg 250 Discs
9135/1	OXACILLIN OX 5µg 50 Discs
9136	LINEZOLID LNZ 30µg 250 Discs
9136/1	LINEZOLID LNZ 30µg 50 Discs
9137	AMPHOTERICIN B AMB 10 µg 250 Discs
9137/1	AMPHOTERICIN B AMB 10 µg 50 Discs
9139	ITRACONAZOLE ITC 8 µg 250 Discs
9139/1	ITRACONAZOLE ITC 8 µg 50 Discs
9140	KETOCONAZOLE KCA 15 µg 250 Discs
9140/1	KETOCONAZOLE KCA 15 µg 50 Discs
9141	COLISTIN SULFATE CS 30 UI 250 Discs
9141/1	COLISTIN SULFATE CS 30 UI 50 Discs
9143	CEFEPIME+CLAVULANIC ACID FEL 40 µg 250 Discs
9144	Cefoxitin+Cloxacillin FOC 230 µg 250 Discs
9144/1	Cefoxitin+Cloxacillin FOC 230 µg 50 Discs
9145	CEFTAZIDIME+CLAVULANIC ACID CAL 40 µg 250 Discs
9145/1	CEFTAZIDIME+CLAVULANIC ACID CAL 40 µg 50 Discs
9146	CLINDAMYCIN CD 10 µg 250 Discs
9146/1	CLINDAMYCIN CD 10 µg 50 Discs
9147	TIGECYCLIN TGC 15 µg 250 Discs

9147/1	TIGECYCLIN TGC 15 µg 50 Discs
9148	FLUCYTOSINE AFY 10 µg 250 Discs
9148/1	FLUCYTOSINE AFY 10 µg 50 Discs
9150	SULFADIAZINE SUZ 300 ug 250 Discs
9150/1	SULFADIAZINE SUZ 300 ug 50 Discs
9151	AMOXICILLIN AML 2 µg 250 Discs
9151/1	AMOXICILLIN AML 2 µg 50 Discs
9152	CEFOTAXIME CTX 5 µg 250 Discs
9152/1	CEFOTAXIME CTX 5 µg 50 Discs
9153	CEFTAZIDIME CAZ 10 µg 250 Discs
9153/1	CEFTAZIDIME CAZ 10 µg 50 Discs
9154	DORIPENEM DOR 10 µg 250 Discs
9154/1	DORIPENEM DOR 10 µg 50 Discs
9155	LINEZOLID LNZ 10 µg 250 Discs
9155/1	LINEZOLID LNZ 10 µg 50 Discs
9156	MECILLINAM MEC 10 µg 250 Discs
9156/1	MECILLINAM MEC 10 µg 50 Discs
9157	MUPIROCIN MUP 200 µg 250 Discs
9157/1	MUPIROCIN MUP 200 µg 50 Discs
9158	NITROFURANTOIN F 100 µg 250 Discs
9158/1	NITROFURANTOIN F 100 µg 50 Discs
9159	PIPERACILLIN PRL 30 µg 250 Discs
9159/1	PIPERACILLIN PRL 30 µg 50 Discs
9160	PIPERACILLIN-TAZOBACTAM TZP 36 µg 250 Discs
9160/1	PIPERACILLIN-TAZOBACTAM TZP 36 µg 50 Discs
9161	QUINUPRISTIN-DALFOPRISTIN QDA 15 µg 250 Discs
9161/1	QUINUPRISTIN-DALFOPRISTIN QDA 15 µg 50 Discs
9162	STREPTOMYCIN S 300 µg 250 Discs
9162/1	STREPTOMYCIN S 300 µg 50 Discs
9163	TOBRAMYCIN TOB 30 µg 250 Discs
9163/1	TOBRAMYCIN TOB 30 µg 50 Discs
9164	VANCOMYCIN VA 5 µg 250 Discs
9164/1	VANCOMYCIN VA 5 µg 50 Discs
9165	CASPOFUNGIN CAS 5 µg 250 Discs
9165/1	CASPOFUNGIN CAS 5 µg 50 Discs
9166	FLUCONAZOLE FLU 25 µg 250 Discs
9166/1	FLUCONAZOLE FLU 25 µg 50 Discs
9167	POSACONAZOLE POS 5 µg 250 Discs
9167/1	POSACONAZOLE POS 5 µg 50 Discs
9168	VORICONAZOLE VO 1 µg 250 Discs
9168/1	VORICONAZOLE VO 1 µg 50 Discs
9169	GATIFLOXACIN GAT 5 µg 250 Discs
9169/1	GATIFLOXACIN GAT 5 µg 50 Discs
9170	NETILMICIN NET 10 µg 250 Discs
9170/1	NETILMICIN NET 10 µg 50 Discs
9171	PHENOXYMETHYLPENICILLIN PV 10 µg 250 Discs
9171/1	PHENOXYMETHYLPENICILLIN PV 10 µg 50 Discs
9172	TELITHROMYCIN TEL 15 µg 250 Discs
9172/1	TELITHROMYCIN TEL 15 µg 50 Discs
9173	LORACARBEF LOR 30 µg 250 Discs
9173/1	LORACARBEF LOR 30 µg 50 Discs
9174	NAFCILLIN NAF 1 µg 250 Discs
9174/1	NAFCILLIN NAF 1 µg 50 Discs
9175	MEROPENEM+CLOXACILLIN MR+CL 250 Discs
9175/1	MEROPENEM+CLOXACILLIN MR+CL 50 Discs
9176	Meropenem + Phenylboronic acid MR + BO 250 Discs
9176/1	Meropenem + Phenylboronic acid MR + BO 50 Discs
9177	MEROPENEM+DIPICOLINIC ACID MR+DP 250 Discs
9177/1	MEROPENEM+DIPICOLINIC ACID MR+DP 50 Discs
9178	Meropenem + EDTA MR + ED 250 Discs

9178/1	Meropenem + EDTA MR + ED 50 Discs
9179	AMOXICILLIN AML 25 µg 250 Discs
9179/1	AMOXICILLIN AML 25 µg 50 Discs
9180	ERYTHROMYCIN E 2 µg 250 Discs
9180/1	ERYTHROMYCIN E 2 µg 50 Discs
9181	NITROFURANTOIN F 50 µg 250 Discs
9181/1	NITROFURANTOIN F 50 µg 50 Discs
9182	CEFOTAXIME+CLAVULANIC ACID CTL 40 µg 250 Discs
9182/1	CEFOTAXIME+CLAVULANIC ACID CTL 40 µg 50 Discs
9183	Imipenem + EDTA IMI + ED 250 Discs
9183/1	Imipenem + EDTA IMI + ED 50 Discs
9184	COLISTIN SULFATE CS 25 µg 250 Discs
9184/1	COLISTIN SULFATE CS 25 µg 50 Discs
9185	CEFPIROME CR 30 µg 250 Discs
9185/1	CEFPIROME CR 30 µg 50 Discs
9186	TEMOCILLIN TMO 30 µg 250 Discs
9186/1	TEMOCILLIN TMO 30 µg 50 Discs
9187	Sulfamethoxazole SMX 100 µg 250 Discs
9187/1	Sulfamethoxazole SMX 100 µg 50 Discs
9188	Metronidazole MTZ 10 µg 250 Discs
9188/1	Metronidazole MTZ 10 µg 50 Discs
9189	MUPIROCIN MUP 5 µg 250 Discs
9190	CEFPODOXIME+CLAVULANIC ACID PXL 11 µg 250 Discs
9190/1	CEFPODOXIME+CLAVULANIC ACID PXL 11 µg 50 Discs
9191	AMOXICILLIN-CLAVULANIC ACID AUG 3 µg 250 Discs
9191/1	AMOXICILLIN-CLAVULANIC ACID AUG 3 µg 50 Discs
9192	ROKITAMYCIN ROK 30 µg 250 Discs
9192/1	ROKITAMYCIN ROK 30 µg 50 Discs
9193	Phenylboronic acid BO 250 Discs
9193/1	Phenylboronic acid BO 50 Discs
9194	DIPICOLINIC ACID DP 250 Discs
9194/1	DIPICOLINIC ACID DP 50 Discs
9195	CEFTAROLINE CPT 5 µg 250 Discs
9195/1	CEFTAROLINE CPT 5 µg 50 Discs
9198	CEFTAROLINE CPT 30 µg 250 Discs
9198/1	CEFTAROLINE CPT 30 µg 50 Discs
9199	ERTAPENEM+CLOXACILLIN ET+CL 250 Discs
9199/1	ERTAPENEM+CLOXACILLIN ET+CL 50 Discs
9202	Ertapenem+Phenylboronic acid ET+BO 250 Discs
9202/1	Ertapenem+Phenylboronic acid ET+BO 50 Discs
9203	Cefotaxime+Clavulanic acid+Cloxacillin CTLC 250 Discs
9203/1	Cefotaxime+Clavulanic acid+Cloxacillin CTLC 50 Discs
9204	Ceftazidime+Clavulanic acid+Cloxacillin CALC 250 Discs
9204/1	Ceftazidime+Clavulanic acid+Cloxacillin CALC 50 Discs
9205	Ceftazidime-avibactam CZA 50 µg 250 Discs
9205/1	Ceftazidime -avibactam CZA 50 µg 50 Discs
9206	Ceftazidime -avibactam CZA 14 µg 250 Discs
9206/1	Ceftazidime-avibactam CZA 14 µg 50 Discs
9209	Nitroxolin NI 30 µg
9209/1	Nitroxolin NI 30 µg
9219	Cefepime FEP 5 µg
9219/1	Cefepime FEP 5 µg
9220	Cefepime FEP 10 µg
9220/1	Cefepime FEP 10 µg
9224	Cefotaxime + Cloxacillin CTC
9224/1	Cefotaxime + Cloxacillin CTC
9225	Ceftazidime + Cloxacillin CAC
9225/1	Ceftazidime + Cloxacillin CAC
9246	Ceftolozane-tazobactam C/T 40 µg

9246/1	Ceftolozane-tazobactam C/T 40 µg
9247	Solithromycin SOL 15 µg 250 Discs
9247/1	Solithromycin SOL 15 µg 50 Discs
9248	Rifampicin 2 µg
9248/1	Rifampicin 2 µg
91200	DISC DISPENSER 8 CARTRIDGES
91203	DISC DISPENSER 6 CARTRIDGES
92000	AMOX*/SULB 2/1 AXS 0.016-256* 30 MIC Test
920000	AMOX*/SULB 2/1 AXS 0.016-256* 100 MIC Test
92001	Rifampicin RD 0.002-32 mg/L 30 MIC Test
920010	Rifampicin RD 0.002-32 mg/L 100 MIC Test
920011	Rifampicin RD 0.002-32 mg/L 10 MIC Test
92002	Fusidic Acid FU 0.016-256 mg/L 30 MIC Test
920020	Fusidic Acid FU 0.016-256 mg/L 100 MIC Test
920021	Fusidic Acid FU 0.016-256 mg/L 10 MIC Test
92003	Ampicillin AMP 0.016-256 mg/L 30 MIC Test
920030	Ampicillin AMP 0.016-256 mg/L 100 MIC Test
920031	Ampicillin AMP 0.016-256 mg/L 10 MIC Test
92004	Polymyxin B PB 0.064-1024 mg/L 30 MIC Test
920040	Polymyxin B PB 0.064-1024 mg/L 100 MIC Test
920041	Polymyxin B PB 0.064-1024 mg/L 10 MIC Test
92005	Cefpodoxime PX 0.016-256 mg/L 30 MIC Test
920050	Cefpodoxime PX 0.016-256 mg/L 100 MIC Test
920051	Cefpodoxime PX 0.016-256 mg/L 10 MIC Test
92006	Cefotaxime CTX 0.016-256 mg/L 30 MIC Test
920060	Cefotaxime CTX 0.016-256 mg/L 100 MIC Test
920061	Cefotaxime CTX 0.016-256 mg/L 10 MIC Test
92007	Cefotaxime CTX 0.002-32 mg/L 30 MIC Test
920070	Cefotaxime CTX 0.002-32 mg/L 100 MIC Test
920071	Cefotaxime CTX 0.002-32 mg/L 10 MIC Test
92008	Cefpirome CR 0.016-256 mg/L 30 MIC Test
920080	Cefpirome CR 0.016-256 mg/L 100 MIC Test
920081	Cefpirome CR 0.016-256 mg/L 10 MIC Test
92009	Gentamicin CN 0.016-256 mg/L 30 MIC Test
920090	Gentamicin CN 0.016-256 mg/L 100 MIC Test
920091	Gentamicin CN 0.016-256 mg/L 10 MIC Test
92010	Gentamicin CN 0.064-1024 mg/L 30 MIC Test
920100	Gentamicin CN 0.064-1024 mg/L 100 MIC Test
920101	Gentamicin CN 0.064-1024 mg/L 10 MIC Test
92011	Gatifloxacin GAT 0.002-32 mg/L 30 MIC Test
920110	Gatifloxacin GAT 0.002-32 mg/L 100 MIC Test
920111	Gatifloxacin GAT 0.002-32 mg/L 10 MIC Test
92012	Teicoplanin TEC 0.016-256 mg/L 30 MIC Test
920120	Teicoplanin TEC 0.016-256 mg/L 100 MIC Test
920121	Teicoplanin TEC 0.016-256 mg/L 10 MIC Test
92013	Enrofloxacin ENR 0.002-32 mg/L 30 MIC Test
920130	Enrofloxacin ENR 0.002-32 mg/L 100 MIC Test
920131	Enrofloxacin ENR 0.002-32 mg/L 10 MIC Test
92014	Spectinomycin SPC 0.064-1024 mg/L MIC Test
920140	Spectinomycin SPC 0.064-1024 mg/L 100 MICTest
920141	Spectinomycin SPC 0.064-1024 mg/L 10 MIC Test
92015	Oxacillin OX 0.016-256 mg/L 30 MIC Test
920150	Oxacillin OX 0.016-256 mg/L 100 MIC Test
920151	Oxacillin OX 0.016-256 mg/L 10 MIC Test
92016	Ceftizoxime CZX 0.016-256 mg/L 30 MIC Test
920160	Ceftizoxime CZX 0.016-256 mg/L 100 MIC Test
920161	Ceftizoxime CZX 0.016-256 mg/L 10 MIC Test
92017	Mecillinam MEC 0.016-256 mg/L 30 MIC Test
920170	Mecillinam MEC 0.016-256 mg/L 100 MIC Test
920171	Mecillinam MEC 0.016-256 mg/L 10 MIC Test

92018	Amikacin AK 0.016-256 mg/L 30 MIC Test
920180	Amikacin AK 0.016-256 mg/L 100 MIC Test
920181	Amikacin AK 0.016-256 mg/L 10 MIC Test
92019	Bacitracin BA 0.016-256 mg/L 30 MIC Test
920190	Bacitracin BA 0.016-256 mg/L 100 MIC Test
920191	Bacitracin BA 0.016-256 mg/L 10 MIC Test
92020	Cefotetan CTT 0.016-256 mg/L 30 MIC Test
920200	Cefotetan CTT 0.016-256 mg/L 100 MIC Test
920201	Cefotetan CTT 0.016-256 mg/L 10 MIC Test
92021	Amoxicillin AML 0.016-256 mg/L 30 MIC Test
920210	Amoxicillin AML 0.016-256 mg/L 100 MIC Test
920211	Amoxicillin AML 0.016-256 mg/L 10 MIC Test
92022	Nitrofurantoin F 0.032-512 mg/L 30 MIC Test
920220	Nitrofurantoin F 0.032-512 mg/L 100 MIC Test
920221	Nitrofurantoin F 0.032-512 mg/L 10 MIC Test
92023	Cefoperazone* - sulbactam (2/1) CPS 0.016-256* mg/L 30 MIC Test
920230	Cefoperazone* - sulbactam (2/1) CPS 0.016-256* mg/L 100 MIC Test
920231	Cefoperazone* - sulbactam (2/1) CPS 0.016-256* mg/L 10 MIC Test
92024	Amoxicillin* - clavulanic acid (2/1) AUG 0.016-256* mg/L 30 MIC Test
920240	Amoxicillin* - clavulanic acid (2/1) AUG 0.016-256* mg/L 100 MIC Test
920241	Amoxicillin* - clavulanic acid (2/1) AUG 0.016-256* mg/L 10 MIC Test
92025	Rifampicin RD 0.016-256 mg/L 30 MIC Test
920250	Rifampicin RD 0.016-256 mg/L 100 MIC Test
920251	Rifampicin RD 0.016-256 mg/L 10 MIC Test
92026	Quinupristin-dalfopristin QDA 0.002-32 mg/L 30 MIC Test
920260	Quinupristin-dalfopristin QDA 0.002-32 mg/L 100 MIC Test
920261	Quinupristin-dalfopristin QDA 0.002-32 mg/L 10 MIC Test
92027	Ampicillin* - sulbactam (2/1) AMS 0.016-256* mg/L 30 MIC Test
920270	Ampicillin* - sulbactam (2/1) AMS 0.016-256* mg/L 100 MIC Test
920271	Ampicillin* - sulbactam (2/1) AMS 0.016-256* mg/L 10 MIC Test
92028	Sulbactam SUL 0.016-256 mg/L 30 MIC Test
920280	Sulbactam SUL 0.016-256 mg/L 100 MIC Test
920281	Sulbactam SUL 0.016-256 mg/L 10 MIC Test
92029	Temocillin TMO 0.064-1024 mg/L 30 MIC Test
920290	Temocillin TMO 0.064-1024 mg/L 100 MIC Test
920291	Temocillin TMO 0.064-1024 mg/L 10 MIC Test
92030	Azithromycin AZM 0.016-256 mg/L 30 MIC Test
920300	Azithromycin AZM 0.016-256 mg/L 100 MIC Test
920301	Azithromycin AZM 0.016-256 mg/L 10 MIC Test
92031	Sulfamethoxazole SMX 0.064-1024 mg/L 30 MIC Test
920310	Sulfamethoxazole SMX 0.064-1024 mg/L 100 MIC Test
920311	Sulfamethoxazole SMX 0.064-1024 mg/L 10 MIC Test
92032	Minocycline MN 0.016-256 mg/L 30 MIC Test
920320	Minocycline MN 0.016-256 mg/L 100 MIC Test
920321	Minocycline MN 0.016-256 mg/L 10 MIC Test
92033	Aztreonam ATM 0.016-256 mg/L 30 MIC Test
920330	Aztreonam ATM 0.016-256 mg/L 100 MIC Test
920331	Aztreonam ATM 0.016-256 mg/L 10 MIC Test
92034	Kanamycin K 0.016-256 mg/L 30 MIC Test
920340	Kanamycin K 0.016-256 mg/L 100 MIC Test
920341	Kanamycin K 0.016-256 mg/L 10 MIC Test
92035	Gemifloxacin GEM 0.002-32 mg/L 30 MIC Test
920350	Gemifloxacin GEM 0.002-32 mg/L 100 MIC Test
920351	Gemifloxacin GEM 0.002-32 mg/L 10 MIC Test
92036	Cefaclor CEC 0.016-256 mg/L 30 MIC Test

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Rev. 32.1 del 07.06.2017

920360	Cefaclor CEC 0.016-256 mg/L 100 MIC Test
920361	Cefaclor CEC 0.016-256 mg/L 10 MIC Test
92037	Trimethoprim TM 0.002-32 mg/L 30 MIC Test
920370	Trimethoprim TM 0.002-32 mg/L 100 MIC Test
920371	Trimethoprim TM 0.002-32 mg/L 10 MIC Test
92038	Mupirocin MUP 0.064-1024 mg/L 30 MIC Test
920380	Mupirocin MUP 0.064-1024 mg/L 100 MIC Test
920381	Mupirocin MUP 0.064-1024 mg/L 10 MIC Test
92039	Cephalotin KF 0.016-256 mg/L 30 MIC Test
920390	Cephalotin KF 0.016-256 mg/L 0.016-256 100 MIC Test
920391	Cephalotin KF 0.016-256 mg/L 10 MIC Test
92040	Doripenem DOR 0.002-32 mg/L 30 MIC Test
920400	Doripenem DOR 0.002-32 mg/L 100 MIC Test
920401	Doripenem DOR 0.002-32 mg/L 10 MIC Test
92041	Pefloxacin PEF 0.016-256 mg/L 30 MIC Test
920410	Pefloxacin PEF 0.016-256 mg/L 100 MIC Test
920411	Pefloxacin PEF 0.016-256 mg/L 10 MIC Test
92042	Ceftriaxone CRO 0.016-256 mg/L 30 MIC Test
920420	Ceftriaxone CRO 0.016-256 mg/L 100 MIC Test
920421	Ceftriaxone CRO 0.016-256 mg/L 10 MIC Test
92043	Ceftriaxone CRO 0.002-32 mg/L 30 MIC Test
920430	Ceftriaxone CRO 0.002-32 mg/L 100 MIC Test
920431	Ceftriaxone CRO 0.002-32 mg/L 10 MIC Test
92044	Cloxacillin CX 0.016-256 mg/L 30 MIC Test
920440	Cloxacillin CX 0.016-256 mg/L 100 MIC Test
920441	Cloxacillin CX 0.016-256 mg/L 10 MIC Test
92045	Ciprofloxacin CIP 0.002-32 mg/L 30 MIC Test
920450	Ciprofloxacin CIP 0.002-32 mg/L 100 MIC Test
920451	Ciprofloxacin CIP 0.002-32 mg/L 10 MIC Test
92046	Spiramycin SP 0.002-32 mg/L 30 MIC Test
920460	Spiramycin SP 0.002-32 mg/L 100 MIC Test
920461	Spiramycin SP 0.002-32 mg/L 10 MIC Test
92048	Clarithromycin CLR 0.016-256 mg/L 30 MIC Test
920480	Clarithromycin CLR 0.016-256 mg/L 100 MIC Test
920481	Clarithromycin CLR 0.016-256 mg/L 10 MIC Test
92049	Ceftaroline CPT 0.016-256 mg/L 30 MIC Test
920490	Ceftaroline CPT 0.016-256 mg/L 100 MIC Test
920491	Ceftaroline CPT 0.016-256 mg/L 10 MIC Test
92050	Fosmidomycin FOM 0.016-256 mg/L 30 MIC Test
920500	Fosmidomycin FOM 0.016-256 mg/L 100 MIC Test
920501	Fosmidomycin FOM 0.016-256 mg/L 10 MIC Test
92051	Erythromycin E 0.016-256 mg/L 30 MIC Test
920510	Erythromycin E 0.016-256 mg/L 100 MIC Test
920511	Erythromycin E 0.016-256 mg/L 10 MIC Test
92052	Telavancin TLV 0.002-32 mg/L 30 MIC Test
920520	Telavancin TLV 0.002-32 mg/L 100 MIC Test
920521	Telavancin TLV 0.002-32 mg/L 10 MIC Test
92053	Telavancin TLV 0.016-256 mg/L 30 MIC Test
920530	Telavancin TLV 0.016-256 mg/L 100 MIC Test
920531	Telavancin TLV 0.016-256 mg/L 10 MIC Test
92054	Imipenem IMI 0.002-32 mg/L 30 MIC Test
920540	Imipenem IMI 0.002-32 mg/L 100 MIC Test
920541	Imipenem IMI 0.002-32 mg/L 10 MIC Test
92056	Ceftaroline CPT 0.002-32 mg/L 30 MIC Test
920560	Ceftaroline CPT 0.002-32 mg/L 100 MIC Test
920561	Ceftaroline CPT 0.002-32 mg/L 10 MIC Test
92057	Vancomycin VA 0.016-256 mg/L 30 MIC Test
920570	Vancomycin VA 0.016-256 mg/L 100 MIC Test
920571	Vancomycin VA 0.016-256 mg/L 10 MIC Test
92058	Ceftibuten CTB 0.002-32 mg/L 30 MIC Test

920580	Ceftibuten CTB 0.002-32 mg/L 100 MIC Test
920581	Ceftibuten CTB 0.002-32 mg/L 10 MIC Test
92060	Cefixime CFM 0.016-256 mg/L 30 MIC Test
920600	Cefixime CFM 0.016-256 mg/L 100 MIC Test
920601	Cefixime CFM 0.016-256 mg/L 10 MIC Test
92066	Cefoxitin FOX 0.016-256 mg/L 30 MIC Test
920660	Cefoxitin FOX 0.016-256 mg/L 100 MIC Test
920661	Cefoxitin FOX 0.016-256 mg/L 10 MIC Test
92070	Plazomicin PLZ 0.016-256 mg/L 30 MIC Test
920700	Plazomicin PLZ 0.016-256 mg/L 100 MIC Test
920701	Plazomicin PLZ 0.016-256 mg/L 10 MIC Test
92072	Clindamycin CD 0.016-256 mg/L 30 MIC Test
920720	Clindamycin CD 0.016-256 mg/L 100 MIC Test
920721	Clindamycin CD 0.016-256 mg/L 10 MIC Test
92074	Meropenem-vaborbactam (8 mg/L) M/V 0.016-256mg/L 30 MIC Test
920740	Meropenem-vaborbactam (8 mg/L) M/V 0.016-256mg/L 100 MIC Test
920741	Meropenem-vaborbactam (8 mg/L) M/V 0.016-256mg/L 10 MIC Test
92075	Chloramphenicol C 0.016-256 mg/L 30 MIC Test
920750	Chloramphenicol C 0.016-256 mg/L 100 MIC Test
920751	Chloramphenicol C 0.016-256 mg/L 10 MIC Test
92078	Fosfomycin FOS 0.016-256 mg/L 30 MIC Test
920780	Fosfomycin FOS 0.016-256 mg/L 100 MIC Test
920781	Fosfomycin FOS 0.016-256 mg/L 10 MIC Test
92079	Fosfomycin FOS 0.064-1024 mg/L 30 MIC Test
920790	Fosfomycin FOS 0.064-1024 mg/L 100 MIC Test
920791	Fosfomycin FOS 0.064-1024 mg/L 10 MIC Test
92080	Delafloxacin DLX 0.002-32 mg/L 30 MIC Test
920800	Delafloxacin DLX 0.002-32 mg/L 100 MIC Test
920801	Delafloxacin DLX 0.002-32 mg/L 10 MIC Test
92081	Levofloxacin LEV 0.002-32 mg/L 30 MIC Test
920810	Levofloxacin LEV 0.002-32 mg/L 100 MIC Test
920811	Levofloxacin LEV 0.002-32 mg/L 10 MIC Test
92084	Meropenem MRP 0.002-32 mg/L 30 MIC Test
920840	Meropenem MRP 0.002-32 mg/L 100 MIC Test
920841	Meropenem MRP 0.002-32 mg/L 10 MIC Test
92085	Meropenem MRP 0.016-256 mg/L 30 MIC Test
920850	Meropenem MRP 0.016-256 mg/L 100 MIC Test
920851	Meropenem MRP 0.016-256 mg/L 10 MIC Test
92087	Metronidazole MTZ 0.016-256 mg/L 30 MIC Test
920870	Metronidazole MTZ 0.016-256 mg/L 100 MIC Test
920871	Metronidazole MTZ 0.016-256 mg/L 10 MIC Test
92090	Moxifloxacin MXF 0.002-32 mg/L 30 MIC Test
920900	Moxifloxacin MXF 0.002-32 mg/L 100 MIC Test
920901	Moxifloxacin MXF 0.002-32 mg/L 10 MIC Test
92093	Netilmicin NET 0.016-256 mg/L 30 MIC Test
920930	Netilmicin NET 0.016-256 mg/L 100 MIC Test
920931	Netilmicin NET 0.016-256 mg/L 10 MIC Test
92096	Norfloxacin NOR 0.016-256 mg/L 30 MIC Test
920960	Norfloxacin NOR 0.016-256 mg/L 100 MIC Test
920961	Norfloxacin NOR 0.016-256 mg/L 10 MIC Test
92099	Ofloxacin OFX 0.002-32 mg/L 30 MIC Test
920990	Ofloxacin OFX 0.002-32 mg/L 100 MIC Test
920991	Ofloxacin OFX 0.002-32 mg/L 10 MIC Test
92102	Penicillin G P 0.016-256 mg/L 30 MIC Test
921020	Penicillin G P 0.016-256 mg/L 100 MIC Test
921021	Penicillin G P 0.016-256 mg/L 10 MIC Test
92103	Penicillin G P 0.002-32 mg/L 30 MIC Test
921030	Penicillin G P 0.002-32 mg/L 100 MIC Test
921031	Penicillin G P 0.002-32 mg/L 10 MIC Test

92105	Piperacillin PIP 0.016-256 mg/L 30 MIC Test
921050	Piperacillin PIP 0.016-256 mg/L 100 MIC Test
921051	Piperacillin PIP 0.016-256 mg/L 10 MIC Test
92106	Piperacillin* - tazobactam TZP 0.016-256* mg/L 30 MICTest
921080	Piperacillin* - tazobactam TZP 0.016-256* mg/L 100 MIC Test
921081	Piperacillin* - tazobactam TZP 0.016-256* mg/L 10 MIC Test
92111	Streptomycin S 0.064-1024 mg/L 30 MIC Test
921110	Streptomycin S 0.064-1024 mg/L 100 MIC Test
921111	Streptomycin S 0.064-1024 mg/L 10 MIC Test
92112	Streptomycin S 0.016-256 mg/L 30 MIC Test
921120	Streptomycin S 0.016-256 mg/L 100 MIC Test
921121	Streptomycin S 0.016-256 mg/L 10 MIC Test
92114	Tetracycline TE 0.016-256 mg/L 30 MIC Test
921140	Tetracycline TE 0.016-256 mg/L100 MIC Test
921141	Tetracycline TE 0.016-256 mg/L 10 MIC Test
92117	Ticarcillin* - clavulanic acid TTC 0.016-256* mg/L 30 MIC Test
921170	Ticarcillin* - clavulanic acid TTC 0.016-256* mg/L 100 MIC Test
921171	Ticarcillin* - clavulanic acid TTC 0.016-256* mg/L 10 MIC Test
92120	Tobramycin TOB 0.064-1024 mg/L 30 MIC Test
921200	Tobramycin TOB 0.064-1024 mg/L 100 MIC Test
921201	Tobramycin TOB 0.064-1024 mg/L 10 MIC Test
92121	Tobramycin TOB 0.016-256 mg/L 30 MIC Test
921210	Tobramycin TOB 0.016-256 mg/L 100 MIC Test
921211	Tobramycin TOB 0.016-256 mg/L 10 MIC Test
92123	Trimethoprim* - sulfamethoxazole (1/19) SXT 0.002-32* mg/L 30 MIC Test
921230	Trimethoprim*-sulfamethoxazole (1/19) SXT 0.002-32* mg/L 100 MIC Test
921231	Trimethoprim*-sulfamethoxazole (1/19) SXT 0.002-32* mg/L 10 MIC Test
92126	Cefepime FEP 0.016-256 mg/L 30 MIC Test
921260	Cefepime FEP 0.016-256 mg/L 100 MIC Test
921261	Cefepime FEP 0.016-256 mg/L 10 MIC Test
92127	Cefepime FEP 0.002-32 mg/L 30 MIC Test
921270	Cefepime FEP 0.002-32 mg/L 100 MIC Test
921271	Cefepime FEP 0.002-32 mg/L 10 MIC Test
92129	Cefuroxime CXM 0.016-256 mg/L 30 MIC Test
921290	Cefuroxime CXM 0.016-256 mg/L 100 MIC Test
921291	Cefuroxime CXM 0.016-256 mg/L 10 MIC Test
92132	Nalidixic Acid NA 0.016-256 mg/L 30 MIC Test
921320	Nalidixic Acid NA 0.016-256 mg/L 100 MIC Test
921321	Nalidixic Acid NA 0.016-256 mg/L 10 MIC Test
92135	Linezolid LNZ 0.016-256 mg/L 30 MIC Test
921350	Linezolid LNZ 0.016-256 mg/L 100 MIC Test
921351	Linezolid LNZ 0.016-256 mg/L 10 MIC Test
92136	Tedizolid TZD 0.002-32 mg/L 30 MIC Test
921360	Tedizolid TZD 0.002-32 mg/L 100 MIC Test
921361	Tedizolid TZD 0.002-32 mg/L 10 MIC Test
92137	Dalbavancin DAL 0.002-32 mg/L 30 MIC Test
921370	Dalbavancin DAL 0.002-32 mg/L 100 MIC Test
921371	Dalbavancin DAL 0.002-32 mg/L 10 MIC Test
92138	Ceftazidime CAZ 0.016-256 mg/L 30 MIC Test
921380	Ceftazidime CAZ 0.016-256 mg/L 100 MIC Test
921381	Ceftazidime CAZ 0.016-256 mg/L 10 MIC Test
92139	Ceftazidime*- avibactam CZA 0.016-256* mg/L 30 MIC Test
921390	Ceftazidime*- avibactam CZA 0.016-256* mg/L 100 MIC Test
921391	Ceftazidime*- avibactam CZA 0.016-256* mg/L 10 MIC Test
92140	Ceftobiprole BPR 0.002-32 mg/L 30 MIC Test

921400	Ceftobiprole BPR 0.002-32 mg/L 100 MIC Test
921401	Ceftobiprole BPR 0.002-32 mg/L 10 MIC Test
92141	Colistin CS 0.016-256 mg/L 30 MIC Test
921410	Colistin CS 0.016-256 mg/L 100 MIC Test
921411	Colistin CS 0.016-256 mg/L 10 MIC Test
92142	Colistin CS 0.064-1024 mg/L 30 MIC Test
921420	Colistin CS 0.064-1024 mg/L 100 MIC Test
921421	Colistin CS 0.064-1024 mg/L 10 MIC Test
92144	Tigecycline TGC 0.016-256 mg/L 30 MIC Test
921440	Tigecycline TGC 0.016-256 mg/L 100 MIC Test
921441	Tigecycline TGC 0.016-256 mg/L 10 MIC Test
92145	Daptomycin DAP 0.016-256 mg/L 30 MIC Test
921450	Daptomycin DAP 0.016-256 mg/L 100 MIC Test
921451	Daptomycin DAP 0.016-256 mg/L 10 MIC Test
92146	Ceftolozane*-tazobactam C/T 0.016-256* mg/L 30 MIC Test
921460	Ceftolozane*-tazobactam C/T 0.016-256* mg/L 100 MIC Test
921461	Ceftolozane*-tazobactam C/T 0.016-256* mg/L 10 MIC Test
92147	Fluconazole FLU 0.016-256 mg/L 30 MIC Test
921470	Fluconazole FLU 0.016-256 mg/L 100 MIC Test
921471	Fluconazole FLU 0.016-256 mg/L 10 MIC Test
92148	Itraconazole ITC 0.002-32 mg/L 30 MIC Test
921480	Itraconazole ITC 0.002-32 mg/L 100 MIC Test
921481	Itraconazole ITC 0.002-32 mg/L 10 MIC Test
92149	Flucytosine FC 0.002-32 mg/L 30 MIC Test
921490	Flucytosine FC 0.002-32 mg/L 100 MIC Test
921491	Flucytosine FC 0.002-32 mg/L 10 MIC Test
92150	Voriconazole VO 0.002-32 mg/L 30 MIC Test
921500	Voriconazole VO 0.002-32 mg/L 100 MIC Test
921501	Voriconazole VO 0.002-32 mg/L 10 MIC Test
92151	Ketoconazole KE 0.002-32 mg/L 30 MIC Test
921510	Ketoconazole KE 0.002-32 mg/L 100 MIC Test
921511	Ketoconazole KE 0.002-32 mg/L 10 MIC Test
92152	Posaconazole POS 0.002-32 mg/L 30 MIC Test
921520	Posaconazole POS 0.002-32 mg/L 100 MICTest
921521	Posaconazole POS 0.002-32 mg/L 10 MIC Test
92153	Amphotericin B AMB 0.002-32 mg/L 30 MIC Test
921530	Amphotericin B AMB 0.002-32 mg/L 100 MICTest
921531	Amphotericin B AMB 0.002-32 mg/L 10 MIC Test
92154	Caspofungin CAS 0.002-32 mg/L 30 MIC Test
921540	Caspofungin CAS 0.002-32 mg/L 100 MIC Test
921541	Caspofungin CAS 0.002-32 mg/L 10 MIC Test
92155	Anidulafungin AND 0.002-32 mg/L 30 MIC Test
921550	Anidulafungin AND 0.002-32 mg/L 100 Test
921551	Anidulafungin AND 0.002-32 mg/L 10 MIC Test
92156	Doxycycline DXT 0.016-256 mg/L 30 MIC Test
921560	Doxycycline DXT 0.016-256 mg/L 100 MIC Test
921561	Doxycycline DXT 0.016-256 mg/L 10 MIC Test
92157	Ertapenem ETP 0.002-32 mg/L 30 MIC Test
921570	Ertapenem ETP 0.002-32 mg/L 100 MIC Test
921571	Ertapenem ETP 0.002-32 mg/L 10 MIC Test
92159	Ceftazidime/Ceftazidime + Clavulanic acid (4 mg/L) CAZ/CAL 0.5-32/0.064-4 mg/L 30 MIC Test
921590	Ceftazidime/Ceftazidime + Clavulanic acid (4 mg/L) CAZ/CAL 0.5-32/0.064-4 mg/L 100 MIC Test
921591	Ceftazidime/Ceftazidime + Clavulanic acid (4 mg/L) CAZ/CAL 0.5-32/0.064-4 mg/L 10 MIC Test
92160	Cefotaxime/Cefotaxime + Clavulanic acid (4 mg/L) CTX/CTL 0.25-16/0.016-1 mg/L 30 MIC Test
921600	Cefotaxime/Cefotaxime + Clavulanic acid (4 mg/L) CTX/CTL 0.25-16/0.016-1 mg/L 100 MIC Test
921601	Cefotaxime/Cefotaxime + Clavulanic acid (4 mg/L) CTX/CTL 0.25-16/0.016-1 mg/L 10 MIC Test

92161	Cefepime/Cefepime + Clavulanic acid (4 mg/L) FEP/FEL 0.25-16 / 0.064-4 mg/L 30 MIC Test
921610	Cefepime/Cefepime + Clavulanic acid (4 mg/L) FEP/FEL 0.25-16 / 0.064-4 mg/L100 MIC Test
921611	Cefepime/Cefepime + Clavulanic acid (4 mg/L) FEP/FEL 0.25-16 / 0.064-4 mg/L 10 MIC Test
92162	Imipenem/Imipenem + EDTA IMI/IMD 4-256/1-64 mg/L 30 MIC Test
921620	Imipenem/Imipenem + EDTA IMI/IMD 4-256/1-64 mg/L 100 MIC Test
921621	Imipenem/Imipenem + EDTA IMI/IMD 4-256/1-64 mg/L 10 MIC Test
92163	Vancomycin//Teicoplanin VA/TEC 0.5-32/0.5-32 mg/L 30 MIC Test
921630	Vancomycin//Teicoplanin VA/TEC 0.5-32/0.5-32 mg/L 100 MIC Test
921631	Vancomycin//Teicoplanin VA/TEC 0.5-32/0.5-32 mg/L 10 MIC Test
92164	Cefotetan/Cefotetan + Cloxacillin CTT/CXT 0.5-32/0.5-32 mg/L 30 MIC Test
921640	Cefotetan/Cefotetan + Cloxacillin CTT/CXT 0.5-32/0.5-32 mg/L 100 MIC Test
921641	Cefotetan/Cefotetan + Cloxacillin CTT/CXT 0.5-32/0.5-32 mg/L 10 MIC Test
92165	Meropenem/Meropenem + EDTA MRP/MRD 0.125-8/0.032-2 mg/L 30 MIC Test
921650	Meropenem/Meropenem + EDTA MRP/MRD 0.125-8/0.032-2 mg/L 100 MIC Test
921651	Meropenem/Meropenem + EDTA MRP/MRD 0.125-8/0.032-2 mg/L 10 MIC Test
92166	Imipenem/Imipenem + EDTA IMI/IMD 0.125-8/0.032-2 mg/L 30 MIC Test
921660	Imipenem/Imipenem + EDTA IMI/IMD 0.125-8/0.032-2 mg/L 100 MIC Test
921661	Imipenem/Imipenem + EDTA IMI/IMD 0.125-8/0.032-2 mg/L 10 MIC Test
92167	Meropenem/Meropenem + Phenylboronic acid MRP/MBO 0.125-8/0.032-2 mg/L 30 MIC Test
921670	Meropenem/Meropenem + Phenylboronic acid MRP/MBO 0.125-8/0.032-2 mg/L 100 MIC Test
921671	Meropenem/Meropenem + Phenylboronic acid MRP/MBO 0.125-8/0.032-2 mg/L 10 MIC Test
92168	Ertapenem/Ertapenem + Phenylboronic acid ETP/EBO 0.125-8/0.032-2 mg/L 30 MIC Test
921680	Ertapenem/Ertapenem + Phenylboronic acid ETP/EBO 0.125-8/0.032-2 mg/L 100 MIC Test
921681	Ertapenem/Ertapenem + Phenylboronic acid ETP/EBO 0.125-8/0.032-2 mg/L 10 MIC Test
92169	Ertapenem/Ertapenem + Cloxacillin ETP/ECX 0.125-8/0.032-2 mg/L 30 MIC Test
921690	Ertapenem/Ertapenem + Cloxacillin ETP/ECX 0.125-8/0.032-2 mg/L 100 MIC Test
921691	Ertapenem/Ertapenem + Cloxacillin ETP/ECX 0.125-8/0.032-2 mg/L 10 MIC Test
92170	Ethambutol EB 0.016-256 mg/L 30 MIC Test
921700	Ethambutol EB 0.016-256 mg/L 100 MIC Test
921701	Ethambutol EB 0.016-256 mg/L 10 MIC Test
92171	Isoniazide IZ 0.016-256 mg/L 30 MIC Test
921710	Isoniazide IZ 0.016-256 mg/L 100 MIC Test
921711	Isoniazide IZ 0.016-256 mg/L 10 MIC Test
92172	Ethionamide ET 0.016-256 mg/L 30 MIC Test
921720	Ethionamide ET 0.016-256 mg/L 100 MIC Test
921721	Ethionamide ET 0.016-256 mg/L 10 MIC Test
92173	Aztreonam ATM 0.064-1024 mg/L 30 MIC Test
921730	Aztreonam ATM 0.064-1024 mg/L 100 MIC Test
921731	Aztreonam ATM 0.064-1024 mg/L 10 MIC Test
92174	Cefazolin KZ 0.016-256 mg/L 30 MIC Test
921740	Cefazolin KZ 0.016-256 mg/L 100 MIC Test
921741	Cefazolin KZ 0.016-256 mg/L 10 MIC Test
92180	Amoxicillin* - clavulanic acid (2 mg/L) AMC 0.016-256* mg/L 30 MICTest
921800	Amoxicillin* - clavulanic acid (2 mg/L) AMC 0.016-256* mg/L 100 MIC Test
921801	Amoxicillin* - clavulanic acid (2 mg/L) AMC 0.016-256* mg/L 10 MIC Test
92181	Ampicillin* - sulbactam (4 mg/L) SAM 0.016-256* mg/L 30 MIC Test
921810	Ampicillin* - sulbactam (4 mg/L) SAM 0.016-256* mg/L 100 MIC Test

921811	Ampicillin* - sulbactam (4 mg/L) SAM 0.016-256* mg/L 10 MIC Test
92182	Micafungin MYC 0.002-32 mg/L 30 MIC Test
921820	Micafungin MYC 0.002-32 mg/L 100 MIC Test
921821	Micafungin MYC 0.002-32 mg/L 10 MIC Test
92183	Ticarcillin TC 0.016-256 mg/L 30 MIC Test
921830	Ticarcillin TC 0.016-256 mg/L 100 MIC Test
921831	Ticarcillin TC 0.016-256 mg/L 10 MIC Test
92184	Isavuconazole IVU 0.002-32 mg/L 30 MIC Test
921840	Isavuconazole IVU 0.002-32 mg/L 100 MIC Test
921841	Isavuconazole IVU 0.002-32 mg/L 10 MIC Test
92200	Tiamulin TIA 0.002-32 mg/L 30 MIC Test
922000	Tiamulin TIA 0.002-32 mg/L 100 MIC Test
922001	Tiamulin TIA 0.002-32 mg/L 10 MIC Test
92201	Tilmicosin TIL 0.002-32 mg/L 30 MIC Test
922010	Tilmicosin TIL 0.002-32 mg/L 100 MIC Test
922011	Tilmicosin TIL 0.002-32 mg/L 10 MIC Test
93001	EASY RID h-IgG
93002	EASY RID h-IgA
93003	EASY RID h-IgM
93004	EASY RID h-C3c
93005	EASY RID h-C4
93006	EASY RID h-Transferrin
93007	EASY RID h-Albumin
93008	EASY RID h-Apolipoprotein A1
93009	EASY RID h-Apolipoprotein B
93010	EASY RID h-Alfa 1 Acid Glicoprotein
93011	EASY RID h-Fibrinogen
93012	EASY RID h-Antitrombin III
93013	EASY RID h-Ig Light Chain K
93014	EASY RID h-Ig Light Chain Lambda
93015	Anti h-alfa 1 Antitrypsin
93016	Anti h-Ceruloplasmin
93018	Anti h-Haptoglobin
93104	Multiplate h-IgG/IgA/IgM
93106	MULTIPLATE h-C3c/C4
93110	MULTIPLATE h-Apo A1/Apo B
93115	MULTIPLATE h-Kappa Chain/Lambda Chain
93201	BENCE JONES TEST
940010	RID CONTROL SERUM
9501	Optochine Test 100 Discs
9502	Bacitracin Test 100 Discs
9503	X FACTOR TEST 100 Discs
9504	V FACTOR TEST 100 Discs
9505	V+X FACTOR TEST 100 Discs
9508	METRONIDAZOLE TEST 100 Discs
9511	SULPHONAMIDE TEST 100 Discs
95200	ANAEROBES
95210	ENTEROCOCCI
95220	ENTEROBACTERIA 1
95230	ENTEROBACTERIA URINE
95240	ENTEROBACTERIA 2
95250	PSEUDOMONAS
95260	STAPH
95270	ACINETOBACTER
95280	YEASTS
95290	Streptо
95380	ENTEROBACTERIA
9555	MT-HAEMOPHILUS
9562	URIN-2
9563	MICE

9564	KGL I (Gram + ve) 1 x 100 Test
9565	KGL II (Gram - ve) 1 x 100 Test
9566	KGL III 100 Test
9567	MULTODISC A
9568	MULTODISC B
9569	MULTODISC C
9570	MULTODISC D
9571	MULTODISC A (100 Pz) (Tender106/2003)
9573	MULTODISC C (100 Pz) (Tender106/2003)
9574	MULTODISC D (100 Pz) (Tender106/2003)
9575	URINE RING (Tender238/2006)
9576	PSEUDOMONAS RING (Tender238/2006)
9577	GRAM NEGATIVE RING (Tender238/2006)
9578	GRAM POSITIVE RING (Tender238/2006)
96001	SALMONELLA TYPHI H 20 ml
96002	SALMONELLA TYPHI O 20 ml
96003	SALMONELLA PARATYPHI AH 20 ml
96004	SALMONELLA PARATYPHI AO 20 ml
96005	SALMONELLA PARATYPHI BH 20 ml
96006	SALMONELLA PARATYPHI BO 20 ml
96007	BRUCELLA TOTALE 20 ml
96008	BRUCELLA ABORTUS 20 ml
96009	SALMONELLA TYPHI TOTALE 20 ml CE
96010	SALMONELLA PARATYPHI A TOTALE 20 ml
96011	PROTEUS OX2 20 ml
96012	PROTEUS OXK 20 ml
96013	PROTEUS OX19 20 ml
96015	FEBRILE MULTITEST KIT
96016	STREP-CHECK KIT
96017	STAPH LATEX KIT
96018	SALMONELLA PARATYPHI B TOTALE 20 ml
96019	SALMONELLA PARATYPHI CH 20 ml
96020	SALMONELLA PARATYPHI CO 20 ml
96021	SALMONELLA PARATYPHI C TOTALE 20 ml
96022	BRUCELLA MELITENSIS 20 ml
96023	BRUCELLA SUIS 20 ml
96031	SALMONELLA TYPHI H SLIDE 5 ml
96032	SALMONELLA TYPHI O SLIDE 5 ml
96033	SALMONELLA TYPHI TOTALE 5 ml SLIDE
96034	SALMONELLA PARATYPHI AH SLIDE 5 ml
96035	SALMONELLA PARATYPHI AO 5 ml SLIDE
96036	SALMONELLA PARATYPHI A TOTALE 5ml SLIDE
96037	SALMONELLA PARATYPHI BH 5 ml SLIDE
96038	SALMONELLA PARATYPHI BO 5 ml SLIDE
96039	SALMONELLA PARATYPHI B TOTALE 5ml SLIDE
96040	SALMONELLA PARATYPHI CH 5 ml SLIDE
96041	SALMONELLA PARATYPHI CO 5 ml SLIDE
96042	SALMONELLA PARATYPHI C TOTALE 5 ml SLIDE
96043	BRUCELLA TOTALE SLIDE 5 ml SLIDE
96044	BRUCELLA ABORTUS 5 ml SLIDE
96045	BRUCELLA MELITENSIS SLIDE 5 ml
96047	PROTEUS OX2 5 ml SLIDE
96048	PROTEUS OX19 5 ml SLIDE
96049	PROTEUS OXK 5 ml SLIDE
96093	CONTROLLO NEGATIVO/NEGATIVE CONTROL 0.5ml
96096	POSITIVE CONTROL FOR SALMONELLA 0.5ml
96097	POSITIVE CONTROL FOR PROTEUS 0.5ml
96098	POSITIVE CONTROL FOR BRUCELLA 0.5ml
96142	Legionella Latex Kit
96143	CAMPYLOBACTER LATEX KIT

96144	CLOSTRIDIUM DIFFICILE LATEX KIT
96148	SHIGELLA ANTISERUM
96150	E. COLI O157 LATEX KIT
96151	SALMONELLA LATEX KIT
96153	STREPTO B LATEX KIT
96154	STREPTO A LATEX KIT
96155	BENCE JONES LATEX TEST
96316	Clostridium difficile GDH Card
96317	Clostridium Difficile Toxin A+B Card
96318	Giardia Card
96319	Listeria Monocytogenes Card
96320	Salmonella Ag Card
96321	O157 E.coli Card
96401	ONE STEP AMP DRMG SCREEN 20 CARDS
96404	ONE STEP COC DRMG SCREEN
96405	ONE STEP THC DRMG SCREEN
96406	ONE STEP M-AMP DRMG SCREEN 20 CARDS
96415/20	FECAL OCCULT BLOOD CARD
96418	STREPTO A CARD 30 CARDS
96441	Gonorrea Ag Card
96442	Gardnerella Vaginalis Card
96443	Trichomonas Vaginalis Card
96444	B.J. Free Kappa/Lambda Dipstick
96455	H.PYLORI CARD 20 CARD
96460	HCG URINE/SERUM CARD 50 CARD
96461	HCG URINE/SERUM CARD 100 CARD
96462	MICROALBUMIN CARD URINE 20 Cards
96465	AFP -ALFA FETO CARD 20 CARDS
96468	TUBERCOLOSI CARD 20 CARDS
96480	IgE TOTAL CARD
96485	CEA CARD 20 Cards
96487	MYOGLOBIN
96488	TROPONIN 20 CARDS
96490	FERRITIN CARD
96495	SIFILIDE CARD 20 CARDS
96498	IM MONONUCLEOSIS INFECTION 20 CARDS
96590	URINE STRIP
96699	Giotto 2
96900	GIOTTO READER
96909	BIOMIC V3
96914	BIOMIC V3 AST
96915	BIOMIC V3 ID
96916	BIOMIC V3 CC
96919	AST Software
96931	ID Software
96932	CC Software
96933	Micropiastre 96 pozzetti Software
97800	ROTASTICK ONE STEP KIT 20 Test
97801	RSV STICK ONE STEP 20 Test
97802	ROTA/ADENO COMBI STICK ONE STEP 20 Test
97803	H.PYLORI FECAL Ag ONE STEP 20 Test
97807	ADENOSTICK ONE STEP ASSAY 20 Test
97809	Strepto B Card
9999	Blank Discs
99003	KPC&MBL disc kit (acc. to EUCAST)
99004	ESBL disc kit (acc. to EUCAST)
99005	ESBL disc kit (acc. to CLSI)
99006	ESBL (Chromos. Ind. AmpC) disc kit (acc. to EUCAST)
99007	KPC&MBL&OXA-48 disc kit (acc. to EUCAST)
99008	ESBL+AmpC screen disc kit

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Rev. 32.1 del 07.06.2017

99009	AmpC disc kit

Direttore Tecnico/ Technical Director
Dr.Silvio Brocco

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Lot 1 (pag 1)

Clostridium perfringens Agar Base

Basal medium for detection of *C. perfringens* from clinical specimens and other materials according to ISO 7937 and ISO 14189.

TYPICAL FORMULA	(g/l)
Enzymatic Digest of Casein	15.0
Enzymatic Digest of Soya	5.0
Yeast Extract	5.0
Sodium Disulfite Anydrous	1.0
Iron(III) Ammonium Citrate	1.0
Agar	15.0
Final pH 7.6 ± 0.2 at 25°C	

DESCRIPTION

Clostridium perfringens Agar Base is a basal medium used either on its own or with selective agents for the presumptive identification of *Clostridium perfringens* from clinical specimens, food, water and environmental samples.

D-Cycloserine can be added to this culture medium to comply with the specifications given by ISO 7937, ISO 14189 and APHA.

When supplemented with polymyxin B and kanamycin, the medium conforms to the formulation developed by Shahidi and Ferguson.

If used without any supplement added, this medium is known as Iron Sulfite Agar and recommended by ISO 15213 for the enumeration of sulfite-reducing bacteria growing under anaerobic conditions.

PRINCIPLE

Enzymatic digest of casein and enzymatic digest of soya provide amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Yeast extract is a rich source of vitamins of B-group. Ferric ammonium citrate and sodium metabisulfite are H_2S indicators. Agar is the solidifying agent. Clostridia reduce sulfite to sulfide which reacts with iron to form a black iron sulfide precipitate.

One of the following selective supplements can be added to the medium:

- *Clostridium perfringens* (T.S.C.) Supplement (ref. 81011), containing D-Cycloserine as inhibitor of accompanying flora;
- Kanamycin/Polymyxin B Supplement (ref. 81031);
- D-Cycloserine 4-MUP Supplement (ref. 81098), which contains in addition to D-Cycloserine, 4-Methyl-umbelliferyl-phosphate (MUP) to detect acid phosphatase by its fluorescence under UV light.

PREPARATION

Suspend 42.0 g of powder in 1 liter of distilled or deionized water (*). Heat to boiling until completely dissolved. Autoclave at 121°C for 15 minutes. Cool to 45-50°C. Aseptically, add rehydrated content of 2 vials (10 ml) of:

- *Clostridium perfringens* (T.S.C.) Supplement for TSC (Tryptose Sulfite Cycloserine Agar) Agar or
- Kanamycin/Polymyxin B Supplement for SFP (Shahidi-Ferguson) Agar or
- D-Cycloserine 4-MUP Supplement for TSC Agar with MUP.

Mix well and pour in Petri dishes.

(*) If desired, 100 ml Egg Yolk Emulsion (ref. 80219) can also be added after sterilization to detect lecithinase activity (not indicated in ISO 7937 or ISO 14189 either). Take this into account for calculating the final volume of 1.01 liters. For either TSC Agar or SFP Agar used as an overlay, the egg yolk emulsion is omitted. Its inclusion does not improve the lecithinase reaction and diminishes the visibility of the colonies.

TECHNIQUE

Inoculate the medium by streak/spread plating, pour-plate method or using the membrane filtration technique.
Incubate plates anaerobically at 37 ± 1°C (food examination) or 44 ± 1°C (water analysis) for 18-24 hours.

INTERPRETATION OF RESULTS

Count all black colonies on the plates. For confirming presumptive colonies of *Clostridium perfringens* the following tests are recommended: reduction nitrate to nitrite (+), motility test (–), gelatine liquefaction (+).

On TSC Agar with MUP, fluorescence is detected with an UV lamp: light blue fluorescencing black colonies indicate *C. perfringens*.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until sings of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

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CE IVD

REFERENCES

1. EN ISO 11133:2014. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
2. ISO 14189: 2011. Water quality – Enumeration of *Clostridium perfringens* – Method using membrane filtration.
3. ISO 7937:2004. Microbiology of food and animal feeding stuffs - Horizontal method for the detection of *Clostridium perfringens* - Colony-count technique.
4. ISO 15213:2003. Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of sulfite-reducing bacteria growing under anaerobic conditions.
5. Rapporti ISTISAN 07/5 ISSA 005B Rev.00. Determinazione di *Clostridium perfringens* (solo su acque provenienti o contaminate da acque superficiali).
6. Downes F.P., and K. Ito (2001) Compendium of methods for the microbiological examination of foods. 4th ed. American Public Health Association, Washington, D.C.
7. Haushild, A.H.W., and A. Hilsheimer (1974) Evaluation and modifications of media for enumeration of *C. perfrigens*. App. Microbiol. 27:78.
8. Harmon, S.M., O.A. Kautler and J.T. Peeler (1971) Improved medium for enumeration of *Clostridium perfringens*. App. Microbiol. 22:688.
9. Shahidi, SA. and AR Ferguson (1971) App. Microbiol. 21:500-606.

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CE IVD

PRODUCT SPECIFICATIONS

NAME
Clostridium perfringens Agar Base

PRESENTATION
Dehydrated medium

STORAGE
10-30°C

PACKAGING

Ref.	Content	Packaging
610207	500 g	500 g of powder in plastic bottle
620207	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
7.6 ± 0.2

USE
Clostridium perfringens Agar Base is a medium used with supplements for the selective isolation and differentiation of C. *perfringens* from clinical specimens, food, water and environmental samples according to ISO 7937, ISO 14189 and APHA

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Dehydrated medium
Appearance: free-flowing, homogeneous
Colour: beige
Prepared medium
Appearance: clear (opaque if egg yolk emulsion has been added)
Colour: amber

SHELFLIFE
4 years

QUALITY CONTROL
1. Control of general characteristics, label and print
2. Microbiological control
   Complete medium: TSC Agar
   Inoculum for productivity: 50-100 CFU
   Inoculum for selectivity: 10^4-10^6 CFU
   Incubation Conditions: 20 ± 2 h at 37 ± 1°C (*) and/or 18-24 at 44 ± 1°C (°), in anaerobiosis

Microorganism		Growth	Colony Appearance
Clostridium perfringens [a,b]	WDCM 00007	Good	Black colonies
Escherichia coli [a]	WDCM 00012	Inhibited	—
Bacillus subtilis [b]	WDCM 00003	Inhibited	—

TABLE OF SYMBOLS

LOT Batch code	IVD *In vitro* Diagnostic Medical Device	Manufacturer	Use by	Fragile, handle with care
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Caution, consult instructions for use	Do not reuse

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CE IVD

Lot 1 (2012)

CLOSTRIUDIUM *perfringens* (T.S.C.) *Supplement*

ENGLISH

Selective supplement for the identification and enumeration of *Clostridium perfringens*, according to ISO 7937 and ISO 14189.

DESCRIPTION

CLOSTRIDIUM *perfringens* (T.S.C.) *Supplement* is a selective supplement for the identification and enumeration of *Clostrdium perfringens*, according to ISO 7937 and ISO 14189. CLOSTRIDIUM *perfringens* (T.S.C.) *Supplement* is added to CLOSTRIDIUM *perfringens* (T.S.C) AGAR BASE, ref. 610207 - 620207.

KIT CONTENTS

Each kit contains:

- 10 bottles of lyophilised CLOSTRIDIUM *perfringens* (T.S.C.) *Supplement*
- 1 instruction sheet.

PRINCIPLE OF THE METHOD

CLOSTRIDIUM *perfringens* (T.S.C.) *Supplement* contains the antibiotic D-cycloserine that inhibits the accompanying bacterial flora.

COMPOSITION

	CLOSTRIDIUM *perfringens* (T.S.C.) *Supplement*	
	Content / bottle	Content / liter of medium
D-cycloserine	200 mg	400 mg

PROCEDURE FOR USE

1. Aseptically reconstitute the content of a bottle of CLOSTRIDIUM *perfringens* (T.S.C.) *Supplement* with 5 ml of sterile distilled water. Shake until completely dissolved avoiding foam formation.
2. Aseptically add the whole contents of one bottle (5 ml) to 500 ml CLOSTRIDIUM *perfringens* (T.S.C.) AGAR BASE*, (ref. 610207 - 620207), autoclaved and cooled to 45-50°C
3. Mix with care and distribute into final containers as indicated in the instruction sheet of the medium being prepared.

*If desired, 50 ml Egg Yolk Emulsion, ref. 80219 can be added to the medium to detect lecithinase activity (not indicated in ISO 7937 or ISO 14189).

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical sheet of the medium being prepared.

QUALITY CONTROL

1. Visual inspection: white lyophilized, limpid colourless solution once reconstituted.
2. Microbiological control.

   Inoculate prepared plates with the strains indicated below. Incubate inverted plates at 35 ± 2°C for 18-24 hours under anaerobic conditions.

Microorganism		Growth	Color
Clostridium perfringens	ATCC® 13124	Good	Black colonies (with a halo if egg yolk emulsion has been added)
Escherichia coli	ATCC® 25922	Inhibited	---

PRECAUTIONS

CLOSTRIDIUM *perfringens* (T.S.C.) *Supplement* is not classified as dangerous under current legislation. For its use, it is anyway recommended to consult the safety data sheet. This product is intended for use in a professional environment and must be used in the laboratory by properly trained personnel, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE

Store CLOSTRIDIUM *perfringens* (T.S.C.) *Supplement* at 2-8°C in its original packaging. In such conditions it will remain valid until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration.

REFERENCES

- Hauschild, A.H.W., Hilsheimer, R., and Griffith, D.W. 1974. Enumeration of faecal Clostridium perfrigens spores in egg yolk-free Tryptose – Sulfite – Cycloserine Agar. Appl. Microb., 27:527-530.
- EN ISO 7937: 2004. Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of *Clostridium perfringens* – Colony count technique.
- ISO 14189: 2011. Water quality – Enumeration of *Clostridium perfringens* – Method using membrane filtration.

PRESENTATION

Product	REF	Σ
CLOSTRIDIUM *perfringens* (T.S.C.) *Supplement*	81011	10 bottles

TABLE OF SYMBOLS

LOT Batch code	Do not reuse	Manufacturer	Σ Contains sufficient for <n> tests	Temperature limitation
REF Catalogue number	Fragile, handle with care	Use by	Caution, consult accompanying documents	

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Rev.2 / 21.02.2014

Lot 2 pot 1

CLOSTRIDIUM DIFFICILE AGAR

Medium for the isolation of *Clostridium difficile*.

TYPICAL FORMULA	(g/l)
Protease Peptone	40.0
Fructose	6.0
Disodium Hydrogen Phosphate	5.0
Potassium Dihydrogen Phospahate	1.0
Magnesium Sulphate	0.1
Sodium Chloride	2.0
Agar	15.0
Final pH 7.4 ± 0.2 at 25°C	

DESCRIPTION

CLOSTRIDIUM DIFFICILE AGAR is a medium used for the isolation of *Clostridium difficile*.

PRINCIPLE

Protease peptone provides nitrogen, vitamins, minerals and amino acid essential for growth. Fructose is the fermentable carbohydrate used to facilitate the recovery and growth of *C. difficile*. Potassium dihydrogen phospahate and disodium hydrogen phosphate act as buffering system. Magnesium sulphate is source of magnesium ions essential for several enzymatic reactions and DNA duplication. Sodium chloride maintains the osmotic balance of the medium. This basal medium needs to be added with horse blood that supplies essential growth factors and selective agents to inhibit the growth of most of the microorganisms present in fecal sample other than *C. difficile*.

PREPARATION

Suspend 34.6 g of powder in 500 ml of distilled water. Heat until completely dissolved. Autoclave at 121°C for 15 minutes. Cool to 45-50°C. Aseptically add 1 vial of CLOSTRIDIUM difficile *Supplement* (ref. 81007) previously reconstituted with 2 ml of sterile distilled water and 35 ml of HORSE BLOOD DEFIBRINATED (ref. 83395). Mix gently and dispense in Petri dishes.

TECHNIQUE

Direct inoculum of fecal samples

Lightly inoculate the medium with fecal sample spreading part of the original inoculum in order to obtain well separated colonies. Incubate the plates at 36+/-1°C for 18-24 hours anaerobically.

Treatment for alcohol shock

Mix equal part of absolute ethyl alcohol and the fecal specimen. Homogenize using a vortex mixer. Leave at room temperature of 1 hour. Inoculate the medium and incubate the plates at 36+/-1°C for 18-24 hours anaerobically.

INTERPRETATION OF RESULTS

C. difficile grows with whitish opaque colonies of 4-6mm diameter irregular.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until sings of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. it is nevertheless recommended to consult the safety data sheet for its correct use. The product must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

1. Levett (1985) J. Clin. Pathol. 38: 233-234.
2. Barlett,. J.G. et al. (1978) N. Eng. J. Med., 298 , 531.
3. Borriello, S.P. et al (1981) J. Antimicrob. Chemother. 7 Supp. A. 53-62.
4. George, R.H. et al (1976) J. Clin. Microbiol. 6, 214-219.

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CE IVD

TECHNICAL SHEET
TS 610115
Rev.1 / 22.06.2013
Page 2 of 2

PRODUCT SPECIFICATIONS

NAME

CLOSTRIDIUM DIFFICILE AGAR

PRESENTATION

Dehydrated medium

STORAGE

10-30°C

PACKAGE

Ref.	Content	Packaging
610115	500 g	500 g of powder in plastic bottle
620115	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM

7.4 ± 0.2

USE

CLOSTRIDIUM DIFFICILE AGAR is a medium used for the isolation of *Clostridium difficile*

TECHNIQUE

Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM

Dehydrated medium

Appearance: free-flowing, homogeneous
Colour: beige

Prepared medium

Appearance: opalescent
Colour: cherry red

SHELFLIFE

4 years

QUALITY CONTROL

1. Control of general characteristics, label and print
2. Microbiological control
   Inoculum for productivity: 10-100 CFU/ml
   Inoculum for selectivity: 10^4-10^5 CFU/ml
   Inoculum for specificity: ≤10^4 CFU/ml
   Incubation conditions: 18-24 h at 36 ± 1°C anaerobically

Microorganism		Growth
Escherichia coli	ATCC® 25922	Inhibited
Clostridium difficile	ATCC® 9869	Good

TABLE OF SYMBOLS

LOT Batch code	IVD *In vitro* diagnostic medical device	Manufacturer	Use by	Fragile, handle with care
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Consult instruction for use	Do not reuse
Keep away from heat sources				

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CE IVD

Lot 2/2012

CLOSTRIDIUM difficile *Supplement*

ENGLISH

Selective supplement for the enrichment of the medium CLOSTRIDIUM difficile AGAR BASE
for the isolation of *Clostridium difficile*

DESCRIPTION

CLOSTRIDIUM difficile *Supplement* is a selective supplement for the isolation of *Clostridium difficile*, made of a una freeze-dried D-Cicloserin and Cefoxitin mixture. CLOSTRIDIUM difficile *Supplement* is used for the selective enrichment of CLOSTRIDIUM difficile AGAR BASE medium code 610115 or 620115.

PACKAGE CONTENTS

Each package contains:

- 10 bottles of freeze-dried CLOSTRIDIUM difficile *Supplement*
- 1 instruction sheet

PRINCIPLE OF THE METHOD

The selectivity of CLOSTRIDIUM difficile *Supplement*, set by Levett, is due to the activity of D-Cicloserin and Cefoxitin which inhibit the growth of most of Enterobacteriaceae, such as *Enterococcus faecalis*, stafilococci, Gram-negative anaerobic non sporigens bacilli and some strains of Clostridia except for *C. difficile*.

COMPOSITION

CLOSTRIDIUM difficile *Supplement*		
	Content / bottle	*Content / l of medium*
Cicloserin	125.0 mg	250.0 mg
Cefoxitin	4.0 mg	8.0 mg

TEST PROCEDURE

1. Reconstitute aseptically the content of one bottle of CLOSTRIDIUM difficile *Supplement* with 2 ml of sterile distilled water. Shake until completely dissolved, avoiding foam formation.
2. Add aseptically the entire content of one bottle (2 ml) to 500 ml of CLOSTRIDIUM difficile Agar Base medium code 610115-620115 autoclaved, cooled at 45-50 °C and with the addition of 7% of defibrinated horse blood (in this case preferred to ram's blood).
3. Mix with care.
4. Distribute into Petri dishes.

TECHNIQUE AND INTERPRETATION OF RESULTS

Refer to the technical documentation for CLOSTRIDIUM difficile AGAR BASE code 610115 or 620115.

QUALITY CONTROL

1. Control of the appearance: freeze-dried product, white colour.
2. Microbiological control .

Prepare the plates using as base CLOSTRIDIUM difficile AGAR BASE code 610115 or 620115 supplemented with CLOSTRIDIUM difficile *Supplement* (1 bottle in 500 ml of medium) and with 7% of defibrinated horse blood. Plates are inoculated with the strains indicated in the microbiological control table.
Incubation conditions: 24 h at 36 ± 1 °C, in anaerobiosis.
Microbiological control:

	Control strains	Growth
Clostridium difficile	ATCC 11204	Good
Escherichia coli	ATCC 25922	Inhibited

PRECAUTIONS

The product CLOSTRIDIUM difficile *Supplement* is classifiable as hazardous under current legislation; it is recommended that the Safety Data Sheet be consulted on its use.
CLOSTRIDIUM difficile *Supplement* is a selective supplement to be used only for *in vitro* diagnostic use. It is intended for use in a professional environment and must be used in the laboratory by properly trained personnel, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE

Store CLOSTRIDIUM difficile *Supplement* at 2-8 °C in its original packaging. In such conditions CLOSTRIDIUM difficile *Supplement* will remain valid until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration.

REFERENCES

- Levett (1985) J. Clin. Pathol. 38. 233-234.
- Hall, I. and O'Toole, E. (1935) Am. J. Dis. Child. 49. 390.

PRESENTATION

Product	REF	Σ
CLOSTRIDIUM difficile *Supplement*	81007	10 bottles

One bottle is sufficient to prepare 500 ml of medium.

TABLE OF SYMBOLS

IVD *In Vitro* Diagnostic Medical Device	Do not reuse	Manufacturer	Contains sufficient for <n> tests	Temperature limitation
REF Catalogue number	Fragile, handle with care	Use by	Caution, consult accompanying documents	LOT Batch code

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CE IVD

Rev.0 / 06.04.2005

Lot 4/2021

BRUCELLA AGAR BASE

Basal medium for selective isolation of *Brucella spp.*

TYPICAL FORMULA (g/l)

Peptone	10.0
Meat Extract	5.0
Glucose	10.0
Sodium Chloride	5.0
Agar	15.0

Final pH = 7,5 ± 0.2 at 25 °C.

DIRECTIONS

Suspend 45.0 g of powder in 1 liter of distilled or deionized water. Heat until completely dissolved. Sterilize in autoclave at 121 °C for 15 minutes. Cool to 45-50 °C. Aseptically add 5-10% of inactivated horse serum, 1-5% of sterile glucose and 2 vials of Brucella supplement (code 81003), reconstituted with 10 ml of a 1:1 solution of methanol and sterile distilled water and incubated at 36 ± 1 °C for 10-15 minutes. Mix well and distribute into Petri dishes.

BRUCELLA supplement

1 Vial contents (each vial is sufficient for 500 ml of medium):

Polymyxin B	2,5000 IU
Bacitracin	12,500 IU
Cycloheximide	50.0 mg
Nalidixic Acid	2.5 mg
Nystatin	50,000 IU
Vancomycin	10.0 mg

DESCRIPTION

BRUCELLA AGAR BASE is a basal medium for isolation of all biotypes of *Brucella*.

TECHNIQUE

Inoculate the medium spreading the specimen over its surface using a bent sterile glass rod and incubate at 36 ± 1 °C for 72-96 hours in 10-20% CO_2 atmosphere. *Brucella* colonies appear as 1-2 mm diameter convex colonies with round entire edges , and may be identified by slide agglutination.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.
Color: beige.

Prepared medium

Appearance: slightly opalescent.
Color: light amber.
Incubation conditions: 36 ± 1 °C for 24-72 hours at 5-10% CO_2.

Microorganism	ATCC	Growth
Brucella abortus	4315	good
Staphylococcus aureus	25923	inhibited
Escherichia coli	25922	inhibited

PERFORMANCE AND LIMITATIONS

Colonies, examined in indirect sunlight, appear translucent, with a slightly amber tinge. OMS recommendes the use of thionine and basic fuchsin resistance tests to differentiate *Brucella melitensis, Brucella abortus, Bucella suis*. Since the nutritional requirements of microorganisms are different, some strains may be encountered that fail to grow or grow poorly on this medium.

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CE IVD

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.
Store prepared plates at 2-8 °C.

REFERENCES

1. Moyer, N.P., and L.A. Holcomb (1995). Brucella, p. 549-555.
2. Vanderzant, C., and D.F. Splittstoesser (ed.) (1992). Compendium of methods for the microbiological examination of food, 3rd ed. American Public Health Association, Washington, D.C.
3. Alton, Jones (1968). La brucellose techniques de laboratoire. Geneve: OMS.

PRESENTATION

Product	REF	Σ
BRUCELLA AGAR BASE (11.1 l)	610079	500 g
BRUCELLA AGAR BASE (2,2 l)	620079	100 g
BRUCELLA supplement	81003	10 vials

TABLE OF SYMBOLS

LOT Batch code	Caution, consult accompanying documents	Manufacturer	Contains sufficient for <n> tests	IVD *In Vitro* Diagnostic Medical Device
REF Catalogue number	Fragile, handle with care	Use by	Temperature limitation	Keep away from heat source

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CE IVD

BRUCELLA *Supplement*

Lot 4/1082

ENGLISH

Selective supplement for the isolation of *Brucella spp.*

DESCRIPTION

BRUCELLA *Supplement* is a selective supplement for the isolation of *Brucella spp* from milk. The selective supplement is made of a freeze-dried antibiotics mixture: Polymyxin B, Bacitracin, Cicloheximide, Nalidixic acid, Nystatin, Vancomycin. BRUCELLA *Supplement* is used for selective enrichment of culture media Brucella Agar Base code 610079 or 620079, Columbia Agar Base code 610013 or 620013, Blood Agar Base N.2 code 610188 or 620188.

KIT CONTENTS

Each kit contains:

- 10 bottles of freeze-dried BRUCELLA *Supplement*
- 1 Instruction sheet

PRINCIPLE OF THE METHOD

The slow growth of Brucella species requires the presence of selective agents inside medium that avoid excessive growth of contaminant microorganisms present in the sample in examination. Polymyxin B is a broad-spectrum antibiotic, Bacitracin interferes with the synthesis of bacterial wall and it is active mostly against Gram-positive bacteria, Cicloheximide and Nystatin have antimicotic activity, Nalidixic acid is an active quinolone aagainst Gram-negative bacteria, Vancomycin inhibits the synthesis of cell wall in Gram-positive bacteria.

COMPOSITION

BRUCELLA *Supplement*		
Contents / bottle		*Contents / l of medium*
Polymyxin B	2500 UI	5000 UI
Bacitracin	12500 UI	25000 UI
Cicloheximide	50,0 mg	100,0 mg
Nalidixic acid	2,5 mg	5,0 mg
Nystatin	50000 UI	100000 UI
Vancomycin	10,0 mg	20,0 mg

PROCEDURE FOR USE

1. Aseptically reconstitute the contents of one bottle of BRUCELLA *Supplement* with 10 ml of a solution of methanol and sterile distilled water in the ratio 1:1. Incubate at 36 ± 1 °C for 10-15 minutes. Shake until completely dissolved, avoiding foam formation.
2. Aseptically add the entire contents of one bottle (10 ml) to 500 ml of Brucella Agar Base medium code 610079 or 620079, Columbia Agar Base medium code 610013 or 620013, Blood Agar Base N.2 medium code 610188 or 620188, autoclaved, cooled at 45-50 °C with the addition of 10% of inactivated horse serum and 1-5% of sterile glucose solution.
3. Mix with care.
4. Distribute into Petri dishes.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical documentation for Brucella Agar Base medium code 610079 or 620079, or Columbia Agar Base medium code 610013 or 620013, or Blood Agar Base N.2 medium code 610188 or 620188.

QUALITY CONTROL

1. Control of the appearance: freeze-dried product, colour orange.
2. Microbiological control.

Prepare the plates using as base BRUCELLA AGAR BASE code 610079 or 620079 supplemented with 5% of inactivated horse serum and 1% of sterile glucose solution, and enriched with BRUCELLA *Supplement* (1 bottle in 500 ml of medium). Plates are inoculated with the strains indicated in the microbiological control table.

Incubation conditions: 48 h at 36 ± 1 °C, in atmosphere with 5-10% of CO_2.

Microbiological control

Control strains		**Growth**
Brucella abortus	ATCC 4315	Good
Staphylococcus aureus	ATCC 25923	Inhibited
Escherichia coli	ATCC 25922	Inhibited

PRECAUTIONS

The product BRUCELLA *Supplement* is classifiable as hazardous under current legislation; it is recommended that the Safety Data Sheet be consulted on its use.

BRUCELLA *Supplement* is a selective supplement to be used only for *in vitro* diagnostic use. It is intended for use in a professional environment and must be used in the laboratory by properly trained personnel, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE

Store BRUCELLA *Supplement* at 2-8 °C in its original packaging. In such conditions BRUCELLA *Supplement* will remain valid until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration.

REFERENCES

- Moyer, N.P., and L.A. Holcomb (1995). Brucella, p. 549-555.
- Vanderzant, C., and D.F. Splittstoesser (ed.) (1992). Compendium of methods for the microbiological examination of food, 3rd ed. American Public Health Association, Washington, D.C.
- Alton, Jones (1968). La brucellose techniques de laboratoire. Geneve: OMS.

PRESENTATION

Product	REF	Σ
BRUCELLA *Supplement*	**81003**	**10 bottles**

One bottle is sufficient to prepare 500 ml of medium

TABLE OF SYMBOLS

IVD	*In Vitro* Diagnostic Medical Device		Do not reuse		Manufacturer	Σ	Contains sufficient for <n> tests		Temperature limitation
REF	Catalogue number		Fragile, handle with care		Use by		Caution, consult accompanying documents	LOT	Batch code

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CE IVD

Rev.0 / 06.04.2005

Lot 5 /07 1

BORDET GENGOU AGAR

Medium for *Bordetella spp* isolation.

TYPICAL FORMULA (g/l)

Potato, Infusion from	4,5
Peptone	5,0
Tryptone	5,0
Sodium Chloride	5,5
Agar	16,0

Final pH = 6,7 ± 0,2 at 25 °C.

DIRECTIONS

Suspend 36,0 g of powder in 1 liter of distilled or deionized water. Add 10 ml of glycerol. Heat to boiling until completely dissolved. Sterilize in autoclave at 121 °C for 15 minutes. Cool to 45-50 °C and aseptically add 15-20% sterile defibrinated sheep blood and 2 vials of Bordetella supplement (cephalexin 20 mg/vial) (code 81013) rehydrated with 5 ml of sterile distilled water. Mix well. Dispense in petri dishes. Final medium will contain 40 mg/l of cephalexin.

DESCRIPTION

BORDET GENGOU AGAR is used with added blood and Bordetella supplement, for isolating *Bordetella pertussis* and other *Bordetella* species.

TECHNIQUE

Inoculate the medium with the specimen to examine spreading with a swab and incubate at 36 ± 1 °C for 3-5 days for isolating *Bordetella pertussis*. Other Bordetella species can appear in 1-3 days. Otherwise allow the patient to cough directly on the plate at a distance of about 10 cm from mouth. The colonies of *Bordetella pertussis* appear small, dropshaped, transparent, shiny and surrounded by a characteristic zone of hemolysis that is not sharply defined but merges diffusely into the medium.

QUALITY CONTROL

Dehydrated medium
Appearance: free-flowing, homogeneous.
Color: beige.
Prepared medium
Appearance: opaque.
Color: cherry red.
Incubation conditions: 36 ± 1°C for 48-72 hours.

Microorganism	ATCC	Growth
Bordetella pertussis	8467	good
Bordetella parapertussis MDH	32472	good

PERFORMANCE AND LIMITATIONS

Since nutritional requirements of organisms vary, some strains of Bordetella may be encountered that grow poorly or fail to grow on this medium.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.
Store prepared plates at 2-8 °C.

REFERENCES

1. Bordet, J., and O. Gengou. 1906. Le microbe de la coqueluche. Ann. Inst. Pasteur 20: 731.
2. Isenberg, H.D. (ed.). 1992. Clinical microbiology procedures handbook, vol. 1. American Society of Microbiology, Washington, D.C.

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CE IVD

PRESENTATION

Product	REF	Σ
BORDET GENGOU AGAR (13,8 l)	610006	500 g
BORDET GENGOU AGAR (2,7 l)	620006	100 g
BORDETELLA supplement Cephalexin 20 mg / vial	81013	10 vials
SHEEP BLOOD DEFIBRINATED	83296	50 ml

TABLE OF SYMBOLS

LOT Batch code	Caution, consult accompanying documents	Manufacturer	Contains sufficient for <n> tests	IVD *In Vitro* Diagnostic Medical Device
REF Catalogue number	Fragile, handle with care	Use by	Temperature limitation	Keep away from heat source

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CE IVD

Lot 5 p2

BORDETELLA *Supplement*

ENGLISH

Selective supplement for the enrichment of BORDET GENGOU AGAR BASE medium
for the isolation of *Bordetella spp.*

DESCRIPTION

BORDETELLA *Supplement* is a selective supplement for the isolation of *Bordetella pertussis* and other species of Bordetella, made of Cephalexin freeze-dried. BORDETELLA *Supplement* is used for the selective enrichment of Bordet Gengou Agar Base medium code 610006 or 620006.

KIT CONTENTS

Each kit contains:

- 10 bottles of freeze-dried BORDETELLA *Supplement*
- 1 Instruction sheet

PRINCIPLE OF THE METHOD

La Cephalexin is a cephalosporins is a broad-spectrum antibiotic, active against both Gram-positive bacteria and Gram-negative bacteria.

COMPOSITION

BORDETELLA *Supplement*		
	Contents / bottle	*Contents / l of medium*
Cephalexin	20.0 mg	40.0 mg

PROCEDURE FOR USE

1. Aseptically reconstitute the contents of one bottle of BORDETELLA *Supplement* with 5 ml of sterile distilled water. Shake until completely dissolved, avoiding foam formation.
2. Aseptically add the entire contents of one bottle (5 ml) to 500 ml of Bordet Gengou Agar Base medium code 610006-620006, autoclaved, cooled at 45-50 °C and with the addition of 15-20% of defibrinated ram's blood.
3. Mix with care.
4. Distribute into Petri dishes.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical documentation for Bordet Gengou Agar Base code 610006-620006.

QUALITY CONTROL

1. Control of the appearance: freeze-dried product, white colour.
2. Microbiological control.

Prepare the plates using Bordet Gengou Agar Base code 610006 or 620006 enriched with BORDETELLA *Supplement* (1 bottle in 500 ml of medium) and with 15% of defibrinated ram's blood. Plates are inoculated with the strains indicated in the microbiological control table.

Incubation conditions: 48 h at 36 ± 1 °C.

Microbiological control

Control strains		Growth
Bordetella pertussis	ATCC 8467	Good
Bordetella parapertussis	MDH 32472	Good
Staphylococcus aureus	ATCC 25923	Inhibited
Escherichia coli	ATCC 25922	Inhibited

PRECAUTIONS

The product BORDETELLA *Supplement* is classifiable as hazardous under current legislation; it is recommended that the Safety Data Sheet be consulted on its use.
BORDETELLA *Supplement* is a selective supplement to be used only for *in vitro* diagnostic use. It is intended for use in a professional environment and must be used in the laboratory by properly trained personnel, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE

Store BORDETELLA *Supplement* at 2-8 °C in its original packaging. In such conditions BORDETELLA *Supplement* will remain valid until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration.

REFERENCES

- Bordet, J., and D. Gengou. 1906. Le microbe de la coqueluche. Ann. Inst. Pasteur 20: 731.
- Isenberg, H.D. (ed.). 1992. Clinical microbiology procedures handbook, vol. 1. American Society of Microbiology, Washington, D.C.
- Regan J., and Lowe F. (1977) J. Clin. Microbiol. **6**: 303-309.

PRESENTATION

Product	REF	Σ
BORDETELLA *Supplement*	**81013**	**10 bottles**

One bottle is sufficient to prepare 500 ml of medium

TABLE OF SYMBOLS

IVD	*In Vitro* Diagnostic Medical Device		Do not reuse		Manufacturer	Σ	Contains sufficient for <n> tests		Temperature limitation
REF	Catalogue number		Fragile, handle with care		Use by		Caution, consult accompanying documents	LOT	Batch code

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CE IVD

Rev.0 / 06.04.2005

Lot 6 / (pag 1-2)

Instructions For Use
ENGLISH

Chromatic™ Candida

Chromogenic selective medium for the isolation and differentiation of *Candida* spp directly from clinical and nonclinical specimens.

DESCRIPTION

Chromatic™ Candida is a chromogenic selective medium used for the isolation and differentiation of *Candida* species directly from clinical and nonclinical specimens permitting to distinguish among *C.albicans, C.tropicalis, C.krusei, C.glabrata, C.dubliniensis* and *C.parapsilosis*.

Although *Candida albicans* remains the most common cause of human Candidiasis, the frequency of infection attributed to other members of the genus is also increasing. Effective treatment requires both early diagnosis and prompt initiation of therapy against fungal infection.

TYPICAL FORMULA	(g/l)
Peptone	10.0
Chloramphenicol	0.5
Chromogenic Mix	25.2
Agar	15.0

Final pH 6.1 ± 0.2 at 25°C

METHOD PRINCIPLE

Peptone provides amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Chloramphenicol is the selective agent inhibiting most of the bacteria. Chromogenic mix allows to identify the *Candida* genus on the basis of the color and morphology of the colonies. Agar is the solidifying agent.

PREPARATION

Dehydrated medium: Suspend 50.7 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. DO NOT AUTOCLAVE.

Medium in bottles: Melt the content of the bottle in a water bath at 100°C (loosing the cap partially removed) until completely dissolved. Then screw the cap and check the homogeneity of the dissolved medium, if it is the case turning the bottle upside down. Cool at 45-50°C, mix well avoiding foam formation and aseptically distribute into Petri dishes.

TEST PROCEDURE

Inoculate the medium by direct streaking, spread plating or membrane filtration method. Incubate aerobically at 30-37°C for 24-48 hours.

INTERPRETING RESULTS

After incubation observe the color and the morphology of the colonies and interpret the results as indicated in the ID table.

ID Table.

Microorganism	Typical colony color
Candida albicans	Green
Candida dubliniensis	Yellow-green
Candida glabrata	Beige
Candida krusei	Pink, pale edges
Candida parapsilosis	Pale pink-white
Candida tropicalis	Blue

See pictures in Appendix 1.

APPEARANCE

Dehydrated medium: free-flowing, homogeneous, light beige.
Prepared medium: slightly opalescent, very light beige.

© Liofilchem® - Chromatic™ Candida- Rev.0.1 / 08.07.2015

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed. Store bottles and prepared plates at 2-8°C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

SHELF LIFE

Dehydrated medium: 4 years.
Medium in bottles: 1 year.
Ready-to-use plates: 6 months.

QUALITY CONTROL

Plates are inoculated with the microbial strains indicated in the QC table.
Inoculum for productivity: 50-100 CFU
Inoculum for selectivity: 10^4-10^6 CFU.
Incubation conditions: aerobically at 35 ± 2°C for 24-48 hours.

QC Table.

Microorganism		Growth	Specification
Candida albicans	ATCC® 10231	Good	Green colonies
Candida krusei	ATCC® 14243	Good	Pink colonies
Candida parapsilosis	ATCC® 22019	Good	Pale pink-white colonies
Candida tropicalis	ATCC® 750	Good	Blue colonies
Escherichia coli	ATCC® 25922	Inhibited	—
Staphylococcus aureus	ATCC® 25923	Inhibited	—

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *in vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

BIBLIOGRAPHY

1. Odds, F.C. And Bernaerts. 1994. CHROMagar Candida, a new differential medium for presumptive identification of clinically important Candida species. J. Clin. Microbiol. 32: 1923-1929.
2. Wingard, JR. Importance of Candida species other than C. albicans as pathogens in oncology patients. Clin Infect Dis. 1995; 20: 115–25.
3. Pfaller, Huston and Coffman. 1996. J. Clin. Microbiol. 32: 1923-1929.
4. Maertens JA. History of the development of azole derivatives. J Clin Microbiol Infect. 2004; 10: 1–10.

PRESENTATION		Contents	Ref.
Chromatic™ Candida	90 mm ready-to-use plates	20 plates	11612
Chromatic™ Candida	60 mm ready-to-use plates	20 plates	163692
Chromatic™ Candida	Bottles	6 x 100 ml bottles	481110
Chromatic™ Candida	Dehydrated medium	500 g of powder	610613
Chromatic™ Candida	Dehydrated medium	100 g of powder	620613

TABLE OF SYMBOLS

LOT	Batch code	IVD	*In vitro* Diagnostic Medical Device		Manufacturer		Use by		Fragile, handle with care
REF	Catalogue number		Temperature limitation	Σ	Contains sufficient for <n> tests	i	Caution, consult Instruction For Use		Do not reuse

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CE IVD

Lot 9/0071

Fraser Broth Base

Enrichment medium for detection and enumeration of *Listeria monocytogenes* and *Listeria* spp, according to ISO 11290 (both parts).

TYPICAL FORMULA	(g/l)
Enzymatic Digest of Animal Tissues	5.0
Enzymatic Digest of Casein	5.0
Meat Extract	5.0
Yeast Extract	5.0
Sodium Chloride	20.0
Disodium Phosphate, anhydrous	9.6*
Potassium Dihydrogen Phosphate	1.35
Aesculin	1.0
Lithium Chloride	3.0
Final pH 7.2 ± 0.2 at 25°C	

*Equivalent to 12.0 g of Disodium Hydrogen Phosphate, dihydrate.

DESCRIPTION

Fraser Broth Base is a liquid medium used with supplements for the selective enrichment of *L. monocytogenes* and *Listeria* spp from food, animal feeding and environmental samples in the area of food production and food handling.

This medium is completed after the addition of one of the following supplements:

- Half Fraser Supplement (ref. 81043)
- Fraser Supplement (ref. 81046)

Both supplements consist of a **Vial A** containing Acriflavine and Nalidixic acid and of a **Vial B** with Ammonium Iron(III) Citrate.

PRINCIPLE

Enzymatic digest of animal tissues, enzymatic digest of casein and meat extract provide nitrogen, vitamins, minerals and amino acids for organisms growth. Yeast extract is a source of vitamins, particularly of B-group. Sodium chloride maintains the osmotic balance of the medium and in a so high concentration inhibits enterococci. Potassium and sodium phosphates act as buffer system. Aesculin is hydrolyzed by all *Listeria* species to aesculetin. Lithium chloride is inhibitory for the accompanying flora.

Ferric ions provided by ammonium iron(III) citrate will react with aesculetin producing a blackening of the medium. Acriflavine and nalidixic acid are selective agents.

PREPARATION

Suspend 55 g of powder in 1 liter of deionized or distilled water. Bring to boil and shake until completely dissolved. Sterilize at 121°C for 15 minutes. Cool up to 45-50°C. Aseptically, add rehydrated content of 2 vials A (10 ml) and of 2 vials B (10 ml) taken from the selected supplement.

TECHNIQUE

1. Add sample to Half Fraser Broth to prepare a 10-fold dilution (w/v or v/v).
   Skip directly to step 3 for the enumeration method described in ISO 11290-2.
   For the detection method in ISO 11290-1, incubate at 30 ± 1°C for 25 ± 1 h.
2. Transfer 0.1 ml of the primary enrichment culture into 10 ml of Fraser Broth.
   Incubate at 37 ± 1°C for 24 ± 2 h.
3. From the enrichment cultures or from the initial suspension (depending on the method used) surface inoculate onto O.A. Listeria Agar (ref. 10620).
   Incubate at 37 ± 1°C for 24 ± 2 h and for an additional 24 ± 2 h.
4. Following the procedure given by ISO 11290-1, use the selective enrichments to inoculate a second selective medium, e.g. Listeria Palcam Agar (ref. 10041), Listeria Oxford Agar (ref. 610167). Refer to the relevant technical sheet for further details.

INTERPRETATION OF RESULTS

A blackening of Half Fraser Broth and Fraser Broth can be observed after incubation.

Blue-green colonies with or without halo on O.A. Listeria Agar are considered presumptive *Listeria* spp. Typical colonies of *L. monocytogenes* are surrounded by an opaque halo. For the enumeration method count all colonies presumed to be *L. monocytogenes* and/or *Listeria* spp.

For confirmation, subculture onto appropriate non-selective agar, e.g. Blood Agar, Nutrient Agar, TSYEA (ref. 10432). Then, carry out confirmation tests including a positive and negative control.

STORAGE CONDITIONS

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container lightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C away from light.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for professional use only and must be used by properly trained operators.

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DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

1. ISO 11290-1:2017. Microbiology of the food chain – Horizontal method for the detection and enumeration of *Listeria monocytogenes* and *Listeria* spp. – Part 1: Detection Method.
2. ISO 11290-2:2017. Microbiology of the food chain – Horizontal method for the detection and enumeration of *Listeria monocytogenes* and *Listeria* spp. – Part 2: Enumeration Method.
3. EN ISO 11133:2014. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
4. Rapporto ISTISAN 96/35. ISSN 1123-3117. Metodi di analisi per il controllo microbiologico degli alimenti.
5. Normalisation Francaise, AFNOR (1993) V08-55.
6. Fraser, J.A and Sperber W.H (1988) J. Food Prot , 51, 762-765.

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PRODUCT SPECIFICATIONS

NAME
Fraser Broth Base

PRESENTATION
Dehydrated medium

STORAGE
10-30°C

PACKAGING

Ref.	Content	Packaging
610375	500 g	500 g of powder in plastic bottle
620375	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
7.2 ± 0.2

USE
Fraser Broth Base is a liquid medium used with supplements for the enrichment and enumeration of *L. monocytogenes* and *Listeria* spp in food and environmental samples, according to ISO 11290-1 and ISO 11290-2

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Powder medium
Appearance: free-flowing, homogeneous
Colour: beige
Ready-to-use medium
Appearance: clear
Colour: amber

SHELFLIFE
4 years

QUALITY CONTROL
1. Control of general characteristics, label and print
2. Microbiological control
   Supplement: Half Fraser Supplement
   Incubation Conditions: 30 ± 1°C / 25 ± 1 h

   Inoculum for productivity: ≤100 CFU

Microorganism		Specification
Listeria monocytogenes serovar 4b + *Escherichia coli* + *Enterococcus faecalis*	WDCM 00021 WDCM 00013 WDCM 00009	Blackening of the medium, >10 colonies on O.A. Listeria Agar

   Inoculum for selectivity: >10^3 CFU

Microorganism		Specification
Escherichia coli	WDCM 00013	Total inhibition on TSA
Enterococcus faecalis	WDCM 00009	<100 colonies on TSA

TSA: Tryptic Soy Agar

TABLE OF SYMBOLS

LOT Batch code	Keep away from Sunlight	Manufacturer	Use by	Fragile, handle with care
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Caution, consult instructions for use	Do not reuse

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Lot 9p 2

ENGLISH

Fraser Supplement

Selective enrichment supplement for detection of
Listeria monocytogenes and *Listeria* spp. according to ISO 11290-1.

DESCRIPTION

Fraser Supplement consists of two distinct lyophilized supplements used for the preparation of Fraser Broth Base (ref. 610375, 620375). The complete medium is used for the selective enrichment and presumptive identification of *Listeria* spp from food and environmental samples.

KIT CONTENTS

Each kit contains:

- 10 vials of freeze-dried Fraser Supplement A
- 10 vials of freeze-dried Fraser Supplement B
- 1 instructions sheet

PRINCIPLE OF THE METHOD

Acriflavine and nalidixic acid inhibit the growth of the accompanying microbial flora. Ammonium ferric citrate allows the detection of aesculin hydrolysis by *Listeria* spp. A blackening of the medium is the result of that reaction.

COMPOSITION

		Content / vial	Content / liter of medium
Vial A	Acriflavine	12.5 mg	25 mg
	Nalidixic Acid	10 mg	20 mg
Vial B	Ammonium Iron(III) Citrate	0.25 g	0.5 mg

PROCEDURE FOR USE

1. Reconstitute aseptically the content of one vial of Supplement A and one vial of Supplement B, with 5 ml of sterile distilled water each.
2. Mix to complete dissolution and add aseptically to 500 ml of Fraser Broth Base. Autoclave and cool the medium at 45-50°C before the addition of supplements.
3. Mix with care and pour into final containers.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical sheet of the medium being prepared.

QUALITY CONTROL

1. Visual inspection: both supplements appear as whitish button, limpid solutions once reconstituted.
2. Microbiological control.
   Prepare the medium per label directions. Inoculate with the microbial strains indicated below and incubate at 30 ± 1°C for 24 ± 2 h.

Control strains		Growth	Blackening
Listeria monocytogenes serovar 4b	WDCM 00021	Good	+
Escherichia coli	WDCM 00013	Inhibited	–
Enterococcus faecalis	WDCM 00009	Partially inhibited	–

WARNING AND PRECAUTIONS

Fraser Supplement contains substances classified as hazardous under current legislation; it is recommended that the Safety Data Sheet be consulted on its use. The product is intended for professional use only and must be used by properly trained operators.

STORAGE AND TRANSPORT CONDITIONS

2-8°C away from light, until the expiry date on the label. However, our stability studies have shown that the storage or transport at 18-25°C for 4 days, or at 35-39°C for 48 hours, do not alter in any way the performance of the product. Eliminate if signs of deterioration or contamination are evident.

REFERENCES

- ISO 11290-1:2017. Microbiology of the food chain – Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria* spp. – Part 1: Detection Method.
- ISO 11290-2:2017. Microbiology of the food chain – Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria* spp. – Part 2: Enumeration Method.
- EN ISO 11133:2014. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
- Rapporto ISTISAN 96/35. ISSN 1123-3117. Metodi di analisi per il controllo microbiologico degli alimenti.
- Normalisation Francaise, AFNOR (1993) V08-55.
- Fraser. J.A and Sperber W.H (1988) J. Food Prot , 51, 762-765.

PRESENTATION

Product	Ref.	Content
Fraser Supplement	81046	20 vials

One vial of Supplement A and one vial of Supplement B are sufficient to prepare 500 ml of medium.

TABLE OF SYMBOLS

LOT Batch code	Do not reuse	Manufacturer	Contains sufficient for <n> tests
REF Catalogue number	Fragile, handle with care	Use by	Caution, consult accompanying documents

Temperature limitation

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Rev.1 / 23.11.2018

Lot 9 p3

ENGLISH

Half Fraser Supplement

Selective supplement for detection and enumeration of *Listeria monocytogenes* and *Listeria* spp. according to ISO 11290 (Part 1 and Part 2).

DESCRIPTION

Half Fraser Supplement consists of two distinct lyophilized supplements used for the preparation of Fraser Broth Base (ref. 610375, 620375). The complete medium is used for the selective enrichment and presumptive identification of *Listeria* spp from food and environmental samples.

KIT CONTENTS

Each kit contains:

- 10 vials of freeze-dried Half Fraser Supplement A
- 10 vials of freeze-dried Half Fraser Supplement B
- 1 instructions sheet

PRINCIPLE OF THE METHOD

Acriflavine and nalidixic acid inhibit the growth of the accompanying microbial flora. Ammonium ferric citrate allows the detection of aesculin hydrolysis by *Listeria* spp. A blackening of the medium is the result of that reaction.

COMPOSITION

		Content / vial	Content / liter of medium
Vial A	Acriflavine	6.25 mg	12.5 mg
	Nalidixic Acid	5 mg	10 mg
Vial B	Ammonium Ferric Citrate	0.25 g	0.5 mg

PROCEDURE FOR USE

1. Reconstitute aseptically the content of one vial of Supplement A and one vial of Supplement B, with 5 ml of sterile distilled water each.
2. Mix to complete dissolution and add aseptically to 500 ml of Fraser Broth Base. Autoclave and cool the medium at 45-50°C before the addition of supplements.
3. Mix with care and pour into final containers.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical sheet of the medium being prepared.

QUALITY CONTROL

1. Visual inspection: both supplements appear as whitish button, limpid solutions once reconstituted.
2. Microbiological control.
   Prepare the medium per label directions. Inoculate with the microbial strains indicated below and incubate at 30 ± 1°C for 25 ± 1 h.

Control strains		Growth	Blackening
Listeria monocytogenes serovar 4b	WDCM 00021	Good	+
Escherichia coli	WDCM 00013	Inhibited	–
Enterococcus faecalis	WDCM 00009	Partially inhibited	–

WARNING AND PRECAUTIONS

Half Fraser Supplement contains substances classified as hazardous under current legislation; it is recommended that the Safety Data Sheet be consulted on its use. The product is intended for professional use only and must be used by properly trained operators.

STORAGE AND TRANSPORT CONDITIONS

2-8°C away from light, until the expiry date on the label. However, our stability studies have shown that the storage or transport at 18-25°C for 4 days, or at 35-39°C for 48 hours, do not alter in any way the performance of the product. Eliminate if signs of deterioration or contamination are evident.

REFERENCES

- ISO 11290-1:2017. Microbiology of the food chain – Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria* spp. – Part 1: Detection Method.
- ISO 11290-2:2017. Microbiology of the food chain – Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria* spp.– Part 2: Enumeration Method.
- EN ISO 11133:2014. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
- Rapporto ISTISAN 96/35. ISSN 1123-3117. Metodi di analisi per il controllo microbiologico degli alimenti.
- Normalisation Francaise, AFNOR (1993) V08-55.
- Fraser. J.A and Sperber W.H (1988) J. Food Prot , 51, 762-765.

PRESENTATION

Product	Ref.	Content
Half Fraser Supplement	81043	20 vials

One vial of Supplement A and one vial of Supplement B are sufficient to prepare 500 ml of medium.

TABLE OF SYMBOLS

LOT Batch code	Do not reuse	Manufacturer	Contains sufficient for <n> tests
REF Catalogue number	Fragile, handle with care	Use by	Caution, consult accompanying documents

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Rev.1 / 23.11.2018

Lot 10 p. 1

LISTERIA PALCAM AGAR

Selective medium for the isolation and enumeration of *Listeria monocytogenes* according to ISO 11290-1.

TYPICAL FORMULA	(g/ l)
Peptone	23.0
Starch	1.0
Sodium Chloride	5.0
Yeast Extract	3.0
Glucose	0.5
Mannitol	10.0
Esculin	0.8
Ferric Ammonium Citrate	0.5
Lithium Chloride	15.0
Phenol Red	0.08
Agar	12.0

Final pH = 7.2 ± 0.2 at 25 °C.

DESCRIPTION

The complete LISTERIA PALCAM AGAR, prepared by adding Listeria Palcam supplement to the medium base, is a selective and differential medium, formulated by Van Netten and other, and according to ISO 11290, for isolation and enumeration of *Listeria monocytogenes* from foods.
The medium is also recommended by:

1. AFNOR for the research of *L. monocytogenes* in foods.
2. IDF as an additional plating medium for the detection of *Listeria spp* in milk and milk products.
3. Health Canada for the detection of *L. monocytogenes* in food and environmental samples.

Aesculin and mannitol, present in the medium, yield a presumptive differentiation of Listeria from other aesculin positive bacteria, such as faecal streptococci.

PRINCIPLE

The peptones favour the excellent growth of Listeria, glucose and starch are energy sources, esculin is hydrolysed by Listeria strains to glucose and esculetin, the latter compound forming a black complex with ferric ions. The competitive flora is inhibited by lithium chloride and by the antimicrobials of the selective supplement: ceftazidim, polymixin B, acriflavine. The fermentation of mannitol by contaminating bacteria that may grow causes phenol red to turn yellow.

PREPARATION

Suspend 35.4 g of powder in 500 ml of distilled or deionized water. Heat until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes. Cool to 45-50°C. Aseptically add 1 vial of Listeria Palcam Supplement (code 81026). Mix well. Dispense into Petri dishes.

TECHNIQUE

Streak a loopful of the suitable enriched broth, inoculated with the sample to analyze, onto the surface of the medium. Incubate at 36+/-1°C for 24-48 hours.

INTERPRETATION OF RESULTS

Listeria monocytogenes cultivates with grey-green colonies surrounded by a black zone (aesculin hydrolysis) with medium's turning to red for missed mannitol fermentation. Possible contaminants such as staphylococci and enterococci, ferment mannitol and cultivate with yellow colonies surrounded by a yellow zone. The suspected colonies must be submitted to Gram colouring, catalase test, mobility examination and identification biochemical tests (Listeria System 18R cod. 71640).

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.
Store prepared media at 2-8°C.

WARNING and PRECAUTIONS

The product is classifiable as hazardous under current legislation; it is recommended that the Safety Data Sheet be consulted on its use.
The product is designed for *In vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

1. ISO 11290- 1/2 Microbiology of food and animal feeding stuffs- Horizontal method for the detection and enumeration of *Listeria monocytogenes*; Part 1 Detection method – Part 2: enumeration method
2. Normalisation Française, AFNOR (1993) V08-55.
3. Manuel suisse des denrées alimentaires, Chapitre 56, E21, juillet 2000,
4. Rapporto ISTISAN 96/35 Istituto Superiore di Sanità; ISSN 1123- 3117
5. Van Netten, P. et al. (1989) Int. J. Food Microbiol. 8, 299-316.

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PRODUCTION SPECIFICATIONS

NAME
LISTERIA PALCAM AGAR

PRESENTATION
Dehydrated culture medium.

STORAGE
10-30°C.

PACKAGING

Code	Content	Packaging
610168	500 g	500 g of powder in plastic bottle
620168	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
7.2 ± 0.2

USE
The complete LISTERIA PALCAM AGAR, prepared by adding Listeria Palcam supplement to the medium base, is a selective and differential medium, formulated by Van Netten and other, and according to ISO 11290, for isolation and enumeration of *Listeria monocytogenes* from foods.

TECHNIQUE
Refer to technical sheet of the product.

APPEARANCE of the MEDIUM
Dehydrated medium
Appearance: free-flowing, homogeneous.
Color: pink.
Prepared medium
Appearance: slightly opalescent.
Color: red.

SHELFLIFE
4 years.

QUALITY CONTROL

1. Control of general characteristics, label and print
2. Sterility control
   7 days at 25 ± 1°C, in aerobiosis
   7 days at 36 ± 1°C, in aerobiosis

Microbiological control
Inoculum for productivity: 10-100 UFC/ml
Inoculum for selectivity: 10^4-10^6 UFC/ml
Inoculum for specificity: ≤ 10^4 UFC/ml
Incubation conditions: 37± 1°C for 24-48 hours.

Microorganism	ATCC	Growth	Characteristics
Listeria monocytogenes	19111	good	Gray colonies/ black halo
Listeria monocytogenes	13932	good	Gray colonies/ black halo
Escherichia coli	25922	inhibited	
Enterococcus faecalis	29212	inhibited	
Candida albicans	10231	inhibited	

TABLE OF SYMBOLS

LOT Batch code	Temperature limitation	Manufacturer	Contains sufficient for <n> tests	IVD *In vitro* Diagnostic Medical Device
REF Catalogue number	Keep away from heat	Use by	Caution, consult accompanying documents	

CE IVD

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Lot 10 pos 2

ENGLISH

LISTERIA PALCAM *Supplement*

Selective supplement for the isolation of *Listeria monocytogenes*.

DESCRIPTION

LISTERIA PALCAM *Supplement* is a selective supplemento made of a freeze-dried mixture of Polymyxin B, Ceftazidime and Acriflavine to use as supplement of the culture medium LISTERIA PALCAM AGAR code 610168 or 620168 for the isolation of *Listeria monocytogenes*.

KIT CONTENTS

Each kit contains:

- 10 vials of freeze-dried LISTERIA PALCAM *Supplement*
- 1 instructions sheet

PRINCIPLE OF THE METHOD

Polymyxin B, Ceftazidime and Acriflavine contribute to the finale medium selectivity by inhibiting the growth of most of common bacterial species non-*Listeria spp* frequently found in food. Polymyxin B acts against Gram-negative bacteria, Ceftazidime is active against Gram-positive and enterobacteria, Acriflavine inhibits many Gram-positive bacteria.

COMPOSITION

LISTERIA PALCAM *Supplement*		
	Content / vial	*Content / l of medium*
Polymyxin B	5.0 mg	10.0 mg
Ceftazidime	10.0 mg	20.0 mg
Acriflavina HCl	2.5 mg	5.0 mg

PROCEDURE FOR USE

1. Reconstitute aseptically the content of one vial of LISTERIA PALCAM *Supplement* with 5 ml of sterile distilled water. Shake until completely dissolved, avoiding foam formation.
2. Add aseptically the entire content of one vial (5 ml) to 500 ml of medium LISTERIA PALCAM AGAR code 610168 or 620168 autoclaved and cooled at 45-50°C.
3. Mix with care.
4. Distribute into Petri dishes.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical documentation for LISTERIA PALCAM AGAR code 610168 or 620168.

QUALITY CONTROL

1. Control of the appearance: freeze-dried product, yellow colour .
2. Microbiological control.

Prepare the plates using as base the medium LISTERIA PALCAM AGAR code 610168 or 620168 added with LISTERIA PALCAM *Supplement* (1 vial in 500 ml of medium). The plates are seeded with the strains indicated in the microbiological control table.
Incubation condition: 24-48 h at 36 ± 1 °C.
Microbiological control:

	Control strains	**Growth**
Listeria monocytogenes	ATCC 19111	Good
Listeria monocytogenes	ATCC 13932	Good
Escherichia coli	ATCC 25922	Inhibited
Enterococcus faecalis	ATCC 29212	Inhibited

PRECAUTIONS

The product LISTERIA PALCAM *Supplement* is classifiable as hazardous under current legislation; it is recommended that the Safety Data Sheet be consulted on its use.
LISTERIA PALCAM *Supplement* is a selective supplement to be used only for *in vitro* diagnostic use. It is intended for use in a professional environment and must be used in the laboratory by properly trained personnel, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE

Store LISTERIA PALCAM *Supplement* at 2-8 °C in its original packaging. In such condit ions LISTERIA PALCAM *Supplement* will remain valid until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration.

REFERENCES

- Van Netten, P. et al.,(1989). J. of Food Microbiol. 8:299-317.
- AFNOR. (1993). Food Microbiology – "Detection of Listeria monocytogenes". IDF Provisional International Standard n° 143. International Dairy Federation, Brussels.

PRESENTATION

Product	REF	Σ
LISTERIA PALCAM *Supplement*	81026	10 vials

TABLE OF SYMBOLS

IVD	*In Vitro* Diagnostic Medical Device		Do not reuse		Manufacturer	Σ	Contains sufficient for <n> tests		Temperature limitation
REF	Catalogue number		Fragile, handle with care		Use by		Caution, consult accompanying documents	LOT	Batch code

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CE IVD

Rev.0 / 23.10.2005

Lot 11 poz 1

O.A. Listeria Agar

Chromogenic selective medium for detection and enumeration of *Listeria monocytogenes* and other *Listeria* spp, according to ISO 11290, Part 1 and Part 2.

TYPICAL FORMULA	(g/l)
Enzymatic Digest of Animal Tissues	18.0
Enzymatic Digest of Casein	6.0
Yeast Extract	10.0
Sodium Pyruvate	2.0
Glucose	2.0
Magnesium Glycerophosphate	1.0
Magnesium Sulfate, anhydrous	0.5
Sodium Chloride	5.0
Lithium Chloride	10.0
Disodium Hydrogen Phosphate, anhydrous	2.5
5-Bromo-4-Chloro-3-Indolyl-β-D-Glucopyranoside	0.05
Agar	15.0
Final pH 7.2 ± 0.2 at 25°C	

DESCRIPTION

O.A. Listeria Agar is a chromogenic medium used with supplements for the selective isolation, differentiation and enumeration of *Listeria monocytogenes* and *Listeria* spp from food, animal feed, environmental samples, and other materials in areas of food production and food handling.

With the addition of O.A. Listeria Supplement (ref. 81074) the medium complies with the formulation of Ottaviani and Agosti recommended in ISO 11290-1, ISO 11290-2, FDA-BAM and APHA.

PRINCIPLE

Enzymatic digest of animal tissues and enzymatic digest of casein provide amino acids, nitrogen, carbon, minerals, vitamins and other nutrients for organisms growth. Yeast extract is a source of vitamins, particularly of B-group. Sodium pyruvate and glucose are sources of energy. Phosphates act as buffer. Magnesium sulfate provides divalent cations and sulfate. Lithium chloride is a selective agent. 5-bromo-4-chloro-3-indolyl-β-D-glucopyranoside is the chromogenic substrate for the detection of the β-glucosidase enzyme. Agar is the solidifying agent.

O.A. Listeria Supplement consists of an Enrichment Supplement and a Selective Supplement. They are incorporated in the medium to detect the phospholipase activity and confer further selectivity, respectively. The substrate phosphatidylinositol and the following antimicrobial agents are added: Nalidixic acid, Ceftazidime, Cycloheximide and Polymixyn B.

PREPARATION

Suspend 72 g of powder in 1 liter of deionized or distilled water. Bring to boil and shake until completely dissolved. Sterilize at 121°C for 15 minutes. Cool up to 45-50°C. Aseptically, add the entire content of 2 bottles (40 ml) of O.A. Listeria Enrichment Supplement and rehydrated content of 2 vials (10 ml) of O.A. Listeria Selective Supplement. Mix well and pour in Petri dishes.

NOTE: To reconstitute the selective supplement use an equal part mixture of distilled water and ethanol.

TECHNIQUE

Detection method according to ISO 11290-1

Demi Fraser Broth (ref. 414000) and Fraser Broth (ref. 24131) are used for the primary and secondary enrichments, respectively. Inoculate the surface of O.A. Listeria Agar from both enriched cultures to obtain well-isolated colonies.

Enumeration method according to ISO 11290-2

Use an appropriate diluent, e.g. Buffered Peptone Water (ref. 414030), Demi Fraser Broth (ref. 424010), to prepare an 1 to 9 dilution of the test sample. Inoculate the surface of the medium directly with the initial suspension to obtain well-isolated colonies.

Incubate at 37 ± 1°C for 24 ± 2 h and for an additional 24 ± 2 h.

INTERPRETATION OF RESULTS

L. monocytogenes produce typical blue-green colonies surrounded by an opaque halo. Blue-green colonies with or without halo are considered presumptive *Listeria* spp.

For the enumeration method count all colonies presumed to be *L. monocytogenes* and/or *Listeria* spp.

For confirmation, subculture onto appropriate non-selective agar, e.g. Blood Agar, Nutrient Agar, TSYEA (ref. 10432). Then, carry out confirmation tests including a positive and negative control.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

WARNING AND PRECAUTIONS

The product contains hazardous substances and is classified as dangerous. It is recommended to consult the safety data sheet for its correct use. The product is designed for professional use only and must be used by properly trained operators.

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TECHNICAL SHEET
TS 610601
Rev.1 / 23.11.2018
Page 2 of 3

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

- ISO 11290-1:2017.Microbiology of the food chain – Horizontal method for the detection and enumeration of *Listeria monocytogenes* and *Listeria* spp. – Part 1: Detection Method.
- ISO 11290-2:2017.Microbiology of the food chain – Horizontal method for the detection and enumeration of *Listeria monocytogenes* and *Listeria* spp. – Part 2: Enumeration Method.
- BAM: Detection and Enumeration of Listeria monocytogenes (2017) Bacteriological Analytical Manual. Chapter 10: Detection of *Listeria monocytogenes* in Foods and Environmental Samples, and Enumeration of *Listeria monocytogenes* in Foods - U.S. Food and Drug Administration.
- APHA (2015): Compendium of Methods for the Microbiological Examination of Foods. 5th ed. American Public Health Association, Washington, D.C.
- EN ISO 11133:2014, Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
- Savini V. et al. (2014) Liofilchem® O.A. Listeria agar and direct CAMP test provided sooner *Listeria monocytogenes* identification from neonatal bacteremia. Int J Clin Exp Pathol. 3:1172-1175.
- Ottaviani, E., Ottaviani, M. and Agosti, M. (1997): Differential agar medium for *Listeria monocytogenes*. Ind. Aliment. 36: 888.

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PRODUCT SPECIFICATIONS

NAME
O.A. Listeria Agar

PRESENTATION
Dehydrated medium

STORAGE
10-30°C

PACKAGING

Ref.	Content	Packaging
610601	500 g	500 g of powder in plastic bottle
620601	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
7.2 ± 0.2

USE
O.A. Listeria Agar is a medium used with supplements for the selective isolation, differentiation and enumeration of *Listeria* spp from food and environmental samples, according to ISO 11290-1 and ISO 11290-2

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Powder medium
Appearance: free-flowing, homogeneous
Colour: whitish beige
Ready-to-use medium
Appearance: slightly opalescent
Colour: amber

SHELFLIFE
4 years

QUALITY CONTROL
1. Control of general characteristics, label and print
2. Microbiological control
   Inoculum for productivity: 50-100 CFU
   Inoculum for selectivity: 10^4-10^8 CFU
   Inoculum for specificity: 10^3-10^4 CFU
   Incubation Conditions: 48 ± 4 h / 37 ± 1°C

Microorganism		Growth	Specification
Listeria monocytogenes 4b	WDCM 00021	Good	Blue green colonies with opaque halo
Escherichia coli	WDCM 00012	Inhibited	—
Enterococcus faecalis	WDCM 00087	Inhibited	—
Listeria innocua	WDCM 00017	Good	Blue green colonies without opaque halo

TABLE OF SYMBOLS

LOT Batch code	Keep away from Sunlight	Manufacturer	Use by	Fragile, handle with care
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Caution, consult instructions for use	Do not reuse

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O.A. LISTERIA *Supplement*

Lot 11 mod 2-3

ENGLISH

Supplement for selective enrichment of Listeria monocytogenes.

DESCRIPTION

O.A. LISTERIA *Supplement* is constituted by 4 bottles of enrichment supplement, containing L-α-fosphatidylinositol, and 4 vials of freeze-dried selective supplement, containing Nalidixic Acid, Ceftazidime, Cycloheximide and Polymyxin B, to use for the preparation of the medium O.A. LISTERIA AGAR (ref. 610601) for the detection of *L. monocytogenes*.

KIT CONTENTS

Each kit contains:

- 4 bottles (20 mL) of O.A. LISTERIA ENRICHMENT *Supplement*
- 4 vials of freeze-dried O.A. LISTERIA SELECTIVE *Supplement*
- 1 Istruction sheet.

PRINCIPLE OF THE METHOD

The selectivity of the medium is due to the addition of antimicrobial selective mixture containing ceftazidime, polymyxin B, nalidixic acid and cycloheximide. The specific differential activity is obtained by means a substrate (L-α-fosphatidylinositol) for a phospholipase C enzyme that is present in *Listeria monocytogenes*.

COMPOSITION

O.A. LISTERIA ENRICHMENT *Supplement*	
	Content / bottle
L-α- fosphatidylinositol	1.0 g

O.A. LISTERIA SELECTIVE *Supplement*	
	Content / vial
Nalidixic Acid	10.0 mg
Ceftazidime	10.0 mg
Cycloheximide	25.0 mg
Polymyxin B	38350 IU

PROCEDURE FOR USE

1. Aseptically add the content of 1 bottle of O.A. LISTERIA ENRICHMENT *Supplement*, prewarmed at 48-50°C, and of 1 vial of O.A. LISTERIA SELECTIVE *Supplement*, reconstituted with 5 mL of a 1:1 mix of ethanol and sterile distilled water, to 500 mL of medium O.A. LISTERIA AGAR (ref. 610601), autoclaved and cooled to 48-50°C.
2. Mix with care.
3. Distribute into the final containers.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical documentation for O.A. LISTERIA AGAR (ref. 610601).

QUALITY CONTROL

Microbiological control.
Prepare the O.A. LISTERIA AGAR (ref. 610601) and inoculate it with the strains indicated in the microbiological control table. Incubate at 36 ± 1 °C for 24-48 hours.

Control strains		Growth	Characteristics
Escherichia coli	ATCC 11229	Inhibited	
Enterococcus faecalis	ATCC 19433	Inhibited	
Candida albicans	ATCC 10231	Inhibited	
Listeria monocytogenes	ATCC 35152	Good	Blue-green colonies surrounded by an opaque halo
Listeria monocytogenes	ATCC 19111	Good	Blue-green colonies surrounded by an opaque halo
Listeria innocua	ATCC 33090	Good	Blue-green colonies

PRECAUTIONS

The kit contains products with dangerous substance according to directives 1999/45/CE and 2001/60/CEor for which exist recognized exposure limits. For its correct use consult the safety data sheet.

STORAGE

Store O.A. LISTERIA *Supplement* at 2-8 °C in its original packaging. In such conditions *O.A. LISTERIA Supplement* maintains its validity until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration.

REFERENCES

- Artault, S., Bind, J.L., Delaval, Y., Dureuil, N., Gillard, N., (2000) AFNOR Validation of the ALOA method for the detection of Listeria monocytogenes in foodstuffs. Colloque de la Societè Francaise de Microbiologie, Paris 19-20 Octobre, 2000.
- ISO 11290 1/2 (Draft, May 2002) Microbiology of food and animal feeding stuffs -- Horizontal method for detection and enumeration of Listeria monocytogenes.
- Ottaviani, F., Ottaviani, M., Agosti, M., (1997) Esperienze su un agar selettivo e differenziale per Listeria monocytogenes. Industrie alimentari, XXXVI, luglio-agosto, 888.

PRESENTATION

product	REF	Σ
O.A. LISTERIA *Supplement*	81074	4+4 bottles

TABLE OF SYMBOLS

LOT	Batch code		Do not reuse		Manufacturer	Σ	Contains sufficient for <n> tests		Temperature limitation
REF	Catalogue number		Fragile, handle with care		Very toxic		Use by		Caution, consult accompanying documents

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Rev. 1/ 23.03.2010

Lot 12 pag 1

TOS Propionate Agar Base

Basal medium for detection of bifidobacteria in milk products according to ISO 29981.

TYPICAL FORMULA	(g/l)
Casein Peptone	10.0
Yeast Extract	1.0
Galactoligosaccharide TOS	10.0
Dipotassium Phosphate	4.8
Monopotassium Phosphate	3.0
Magnesium Sulfate, heptahydrated	0.2
Ammonium Sulfate	3.0
L-Cysteine HCl	0.5
Sodium Propionate	15.0
Agar	15.0

Final pH 6.7 ± 0.2 at 25°C

DESCRIPTION

TOS Propionate Agar Base is a selective medium used with supplements for the enumeration of bifidobacteria in milk products including fermented and non-fermented milks, milk powders and infant formulae.

This medium complies with the specification given by ISO 29981/IDF 220.

PRINCIPLE

Casein peptone provides the nitrogen, vitamins, minerals and amino acids for bacterial growth. Yeast extract is a source of vitamins, particularly of B-group. Galactoligosaccharide TOS is a growth factor specific for bifidobacteria. Phosphates act as buffer. Magnesium sulfate allows the recovery of preinjured bifidobacteria. Ammonium sulfate serves as nitrogen source. L-cysteine is a reducing agent. Sodium Propionate is the selective agent inhibiting the accompanying flora. Agar is the solidifying agent.

Supplementation with Lithium-Mupirocin (MUP), contained in MUP Selective Supplement (ref. 81101), confers further selectivity against lactobacilli, lactococci, streptococci and leuconostocs. Mupirocin is so highly selective that in most cases only bifidobacteria grow with visible colonies with no need for confirmation.

PREPARATION

Suspended 62.5 g of powder in 1 liter of distilled or deionized water. Heat to boiling to dissolve completely. DO NOT OVERHEAT. Sterilize by autoclaving at 115 ± 3°C for 15 minutes. Cool the medium to 45-50°C before adding the rehydrated content of 2 vials (10 ml) of MUP Selective Supplement.

TECHNIQUE

Use 1/4 strength Ringer's solution (ref. 81059) to prepare the initial sample suspension and further decimal dilutions. Inoculate the completed TOS-MUP medium by the pour-plate method or by spreading the sample over the agar surface. NOTE: Bifidobacteria are sensitive to oxygen from air, so time from the first dilution to the agar inoculation should not exceed 15 minutes. Incubate anaerobically at 37°C for 72 ± 3 hours.

INTERPRETATION OF RESULTS

Observe colonies growth. Typically, bifidobacteria grow as white colonies of 1-4 mm diameter sizes. Count colonies on all plates containing 15-300 colonies. Report the count as CFU per ml of sample allowing for dilution factors.

STORAGE

The powder is very hygroscopic: store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until sings of deterioration or contamination are evident.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct us. The product is designed for professional use only and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

1. ISO 29981/IDF 220: 2010. Milk products - Enumeration of presumptive bifidobacteria - Colony count technique at 37 degrees C.
2. Zitz, U., Kneifel, W., Weiss, H., Wilrich, P.-Th. (2007) Selective Enumeration of Bifidobacteria in Dairy Products: Development of a Standard Method. Bulletin Int. Dairy Fed. 411: 3-20.
3. ISO 7889/IDF 117:2003. Yogurt - Enumeration of characteristic microorganisms - Colony-count technique at 37 degrees C.

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PRODUCT SPECIFICATIONS

NAME
TOS Propionate Agar Base

PRESENTATION
Dehydrated medium

STORAGE
10-30°C

PACKAGE

Ref.	Content	Packaging
610378	500 g	500 g of powder in plastic bottle
620378	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
6.7 ± 0.2

USE
TOS Propionate Agar Base is a base medium used with supplement for the selective growth of bifidobacteria from milk products

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Dehydrated medium
Appearance: free-flowing, homogeneous
Colour: beige
Prepared medium
Appearance: clear
Colour: amber

SHELFLIFE
4 years

QUALITY CONTROL
1. Control of general characteristics, label and print
2. Microbiological control
   Inoculum for productivity: 50-100 CFU
   Inoculum for selectivity: 10^3-10^4 CFU
   Incubation conditions: 72 ± 3 h at 37 ± 1°C under anaerobic atmosphere

Microorganism		Growth	Colony Colour
Bifidobacterium animalis subsp. *animalis*	ATCC® 25527	Good	White
Bifidobacterium animalis subsp. *lactis*	ATCC® 27536	Good	White
Lactobacillus casei	ATCC® 393	Inhibited	—

TABLE OF SYMBOLS

LOT Batch code	Keep away from heat sources	Manufacturer	Use by	Fragile, handle with care
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Consult instructions for use	

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Lot 12 pot 2

ENGLISH

MUP Selective Supplement

Selective supplement for detection of bifidobacteria in milk products.

DESCRIPTION

MUP Selective Supplement is a selective lyophilized supplement used for the preparation of TOS Propionate Agar Base (ref. 610378, 620378). The complete medium is used for the enumeration of bifidobacteria in milk and milk products.

KIT CONTENTS

Each kit contains:

- 10 vials of lyophilized MUP Selective Supplement
- 1 instruction sheet.

PRINCIPLE OF THE METHOD

Lithium-Mupirocin (MUP) inhibits lactic acid bacteria without influencing the growth of bifidobacteria.

COMPOSITION

	Content / vial	Content / liter of medium
Lithium-Mupirocin	25 mg	0.05 g

PROCEDURE FOR USE

1. Reconstitute aseptically the content of one vial of MUP Selective Supplement with 5 ml of sterile distilled water.
2. Mix to complete dissolution and add aseptically to 500 ml of TOS Propionate Agar Base autoclaved and cooled to 45-50°C.
3. Mix with care and pour into Petri dishes.

NOTE: After adding the supplement the medium is used immediately.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical sheet of the medium being prepared.

QUALITY CONTROL

1. Visual inspection: whitish button, limpid colourless solution once reconstituted.
2. Microbiological control.
   Prepare the medium per label directions. Inoculate the plates with the microbial strains indicated below and incubate at 37°C for 72 h under anaerobic atmosphere.

Control strains		Growth	Colony Colour
Bifidobacteria animalis subsp. *lactis*	ATCC® 27536	Good	White
Lactobacillus casei	ATCC® 393	Inhibited	---

PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for professional use only and must be used by properly trained operators.

STORAGE AND TRANSPORT CONDITIONS

2-8°C away from light, until the expiry date on the label. However, our stability studies have shown that the storage or transport at 18-25°C for 4 days, or at 35-39°C for 48 hours, do not alter in any way the performance of the product. Eliminate if signs of deterioration or contamination are evident.

REFERENCES

- ISO 29981/IDF 220: 2010. Milk products - Enumeration of presumptive bifidobacteria - Colony count technique at 37 degrees C.
- Zitz, U., Kneifel, W., Weiss, H., Wilrich, P.-Th. (2007) Selective Enumeration of Bifidobacteria in Dairy Products: Development of a Standard Method. Bulletin Int. Dairy Fed. 411: 3-20.
- ISO 7889/IDF 117:2003. Yogurt - Enumeration of characteristic microorganisms - Colony-count technique at 37 degrees C.

PRESENTATION

Product	Ref.	Content
MUP Selective Supplement	81101	10 vials

One vial is sufficient to prepare 500 ml of medium.

TABLE OF SYMBOLS

LOT Batch code	Do not reuse	Manufacturer	Contains sufficient for <n> tests	Temperature limitation
REF Catalogue number	Fragile, handle with care	Use by	Caution, consult accompanying documents	

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Rev.0 / 07.08.2018

Lot 14 p07 1

Pseudomonas Agar Base

Selective medium for detection and enumeration of *Pseudomonas* spp. according to ISO 13720, ISO/TS 11059 and ISO 16266.

TYPICAL FORMULA	(g/l)
Gelatin Peptone	16.0
Casein Hydrolysate	10.0
Potassium Sulfate, Anhydrous	10.0
Magnesium Chloride, Anhydrous	1.4
Agar	15.0

Final pH 7.1 ± 0.2 at 25°C

DESCRIPTION

Pseudomonas Agar Base is a medium used with supplements for the selective isolation of *Pseudomonas* spp from meat and dairy products, water, environmental samples and clinical specimens.

When supplemented with CFC (Pseudomonas) Supplement (ref. 81049), the medium complies with the recommendations of ISO 13270 for the detection and enumeration of *Pseudomonas* spp in meat and meat products.

When supplemented with PP (Pseudomonas) Supplement (ref. 81093) the medium complies with the recommendations of ISO/TS 11059 for the isolation and enumeration of *Pseudomonas* spp in milk and milk products.

When supplemented with CN (Pseudomonas) Supplement (ref. 81006) the medium complies with the recommendations of ISO 16266 for the detection and enumeration of *Pseudomonas aeruginosa* in water samples by using the membrane filtration technique.

PRINCIPLE

Gelatin peptone and casein hydrolysate provide amino acids, nitrogen, carbon, minerals, vitamins and other nutrients for organisms growth. Potassium sulfate and magnesium chloride promote pyocyanin production. Agar is the solidifying agent.

Supplementation with Glycerol Supplement (ref. 80021) supplies a carbon and energy source enhancing pyocyanin production.

CFC Supplement contains Cetrimide, Fusidic Acid and Cefaloridin.

PP Supplement contains Primaricin (Natamycin) and Penicillin G.

CN Supplement contains Cetrimide and Nalidixic Acid.

By use of the appropriate selective supplement and incubation conditions the medium becomes selective for *Pseudomonas* spp, including *Burkholderia cepacia* (CFC Agar and PP Agar), or *Pseudomonas aeruginosa* (CN Agar).

PREPARATION

Suspend 52.4 g of powder in 1 liter of deionized or distilled water. Add 10 ml of Glycerol Supplement. Bring to boil and shake until completely dissolved. Sterilize at 121°C for 15 minutes. Cool up to 45-50°C.

To prepare Pseudomonas CFC Agar, aseptically, add rehydrated content of 2 vials (4 ml) of CFC Supplement.

To prepare Pseudomonas PP Agar, aseptically, add rehydrated content of 2 vials (10 ml) of PP Supplement.

To prepare Pseudomonas CN Agar, aseptically, add rehydrated content of 2 vials (4 ml) of CN Supplement.

Mix well and pour in Petri dishes.

TECHNIQUE

Pseudomonas CFC Agar and Pseudomonas PP Agar
Inoculate the medium by using the spread plate technique. Incubate aerobically at 25 ± 1°C for up to 5 hours.

Pseudomonas CN Agar
Inoculate the medium by using the membrane filtration method. Incubate aerobically at 36 ± 2°C for 40-48 hours.

INTERPRETATION OF RESULTS

All colonies grown on either CFC Agar or PP Agar are suspect *Pseudomonas* spp. Colonies which result non-glucose fermenters (ref. 88202) and oxidase positive (ref. 88029, 88003 or 88004) are confirmed as *Pseudomonas* spp.

Examine membranes on CN Agar for growth and fluorescence under UV light after 20-24 h and 40-48 h.

- Count all colonies that produce the green-blue pigment as confirmed *Pseudomonas aeruginosa*.
- Count all non-pyocyanin producing colonies that fluoresce as presumptive *Pseudomonas aeruginosa*. Confirm by using Acetamide Broth (ref. 24144).
- Count all other reddish-brown non-pigmented colonies that do not fluoresce as presumptive *Pseudomonas aeruginosa*. Confirm by using the oxidase test, Acetamide Broth and King's B Medium (ref. 11072).

STORAGE AND TRANSPORT CONDITIONS

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container lightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for *in vitro* diagnostic use only and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

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CE IVD

REFERENCES

- EN ISO 11133:2014. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
- ISO/TS 11059:2009 (IDF/RM 225: 2009) Milk and milk products – Method for the enumeration of *Pseudomonas* spp.
- UNI EN ISO 16266:2008. Water quality – Detection and enumeration of *Pseudomonas aeruginosa* by membrane filtration.
- ISO 13720:1995. Meat and meat products – Enumeration of *Pseudomonas* spp.
- Mead, G.C. and B.W. Adams (1977) A selective medium for the rapid isolation of Pseudomonas associated with poultry meat spoilage. Br. Poult. Sci. 18:661-670
- Goto S. and S. Enomoto (1970) Nalidixic acid cetrimide agar. A new selective plating medium for the selective isolation of P. aeruginosa. Jpn. J. Microbiol. 14:65.

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CE IVD

PRODUCT SPECIFICATIONS

NAME
Pseudomonas Agar Base

PRESENTATION
Dehydrated medium

STORAGE
10-30°C

PACKAGING

Ref.	Content	Packaging
610071	500 g	500 g of powder in plastic bottle
620071	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
7.1 ± 0.2

USE
Pseudomonas Agar Base is a medium used with supplements for the selective isolation of *Pseudomonas* spp from meat and dairy products, water, environmental samples, according to ISO 13720, ISO/TS 11059 and ISO 16266. This medium can be used also for the examination of clinical specimens

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Powder medium
Appearance: free-flowing, homogeneous
Colour: light beige
Ready-to-use medium
Appearance: slightly opalescent
Colour: amber

SHELFLIFE
4 years

QUALITY CONTROL
1. Control of general characteristics, label and print
2. Microbiological control
   Inoculum for productivity: 50-100 CFU
   Inoculum for selectivity: 10^4-10^6 CFU

Pseudomonas CFC Agar Incubation Conditions: 40-48 h at 25 ± 1°C, in aerobiosis

Microorganism		Growth
Pseudomonas fluorescens	WDCM 00115	Good
Pseudomonas fragi	WDCM 00116	Good
Escherichia coli	WDCM 00012	Inhibited

Pseudomonas PP Agar Incubation Conditions: 48 ± 2 h at 25 ± 1°C, in aerobiosis

Microorganism		Growth
Pseudomonas fluorescens	WDCM 00115	Good
Pseudomonas aeruginosa	WDCM 00025	Good
Escherichia coli	WDCM 00012	Inhibited

Pseudomonas CN Agar Incubation Conditions: 40-48 h at 36 ± 2°C, in aerobiosis

Microorganism		Growth
Pseudomonas aeruginosa	WDCM 00024	Good
Enterococcus faecalis	WDCM 00087	Inhibited
Escherichia coli	WDCM 00013	Inhibited

TABLE OF SYMBOLS

LOT Batch code	IVD *In vitro* Diagnostic Medical Device	Manufacturer	Use by	Fragile, handle with care
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Caution, consult instructions for use	Do not reuse

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CE IVD

Lot 14 m72

ENGLISH

CN (Pseudomonas) *Supplement*

Selective supplement for the isolation of *Pseudomonas aeruginosa*

DESCRIPTION

CN (*Pseudomonas*) *Supplement* is a selective supplement for the isolation of *Pseudomonas aeruginosa*, comprising a freeze-dried mixture of Cetrimide and Nalidixic Acid. CN (*Pseudomonas*) *Supplement* is used for selective enrichment of PSEUDOMONAS AGAR BASE medium code 610071 or 620071.

KIT CONTENTS

Each kit contains:

- 10 bottles of freeze-dried CN (*Pseudomonas*) *Supplement*
- 1 Instruction sheet

PRINCIPLE OF THE METHOD

CN (*Pseudomonas*) *Supplement* is recommended for the selective isolation of *Pseudomonas aeruginosa*. The formula for the supplement was described by Goto and Enomoto who demonstrated that the addition of nalidixic acid at a concentration of 15 µg/ml with the anionic surfactant cetrimide at only 200 µg/ml, increased the efficiency of the medium.

COMPOSITION

CN (*Pseudomonas*) *Supplement*		
	Contents / bottle	*Contents / l of medium*
Cetrimide	100.0 mg	200.0 mg
Nalidixic acid	7.5 mg	15.0 mg

PROCEDURE FOR USE

1. Aseptically reconstitute the contents of a bottle of CN (*Pseudomonas*) *Supplement* with 2 ml of a solution of sterile distilled water and ethanol in the ratio 1: 1. Shake until completely dissolved, avoiding foam formation.
2. Aseptically add the entire contents of a bottle (2 ml) to 500 ml of Pseudomonas Agar Base medium code 610071-620071, supplemented with 5 ml of Glycerol *Supplement* (code 80021), autoclaved and cooled to 45-50 °C.
3. Mix with care.
4. Distribute into Petri dishes.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical documentation for PSEUDOMONAS AGAR BASE code 610071 or 620071.

QUALITY CONTROL

1. Control of the appearance: freeze-dried product, colour white.
2. Microbiological control.

Prepare plates using as base PSEUDOMONAS AGAR BASE code 610071 or 620071 supplemented with Glycerol *Supplement* (code 80021, 5 ml in 500 ml of medium) and with CN (*Pseudomonas*) *Supplement* (1 bottle in 500 ml of medium). The plates are seeded with the strains indicated in the microbiological control table.
Incubation conditions: 24 h at 36+/-1 °C.

Microbiological control

Control strains		Growth
Burkholderia cepacia	ATCC 25609	Partially inhibited
Pseudomonas aeruginosa	ATCC 9027	Good
Pseudomonas aeruginosa	ATCC 27852	Good
Pseudomonas putida	ATCC 12633	Good
Staphylococcus aureus	ATCC 25923	Inhibited
Proteus vulgaris	ATCC 13315	Partially inhibited

PRECAUTIONS

The product CN (*Pseudomonas*) *Supplement* is classifiable as hazardous under current legislation; it is recommended that the Safety Data Sheet be consulted on its use.
CN (*Pseudomonas*) *Supplement* is a selective supplement to be used only for *in vitro* diagnostic use. It is intended for use in a professional environment and must be used in the laboratory by properly trained personnel, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE

Store CN (*Pseudomonas*) *Supplement* at 2-8 °C in its original packaging. In such conditions CN (*Pseudomonas*) *Supplement* will remain valid until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration.

REFERENCES

- King, E.O., M.K. Ward, and D.E. Raney (1954). Two simple media for the demonstration of pyocyanin and fluorescin. J. Lab. Clin. 44, 301.
- Goto S. and Enomoto S. (1970) Jap. J. Microbiol. **14**: 65-72.
- Lowbury E.J. And Collins A.G. (1955) J. Clin. Path. **8**: 47-48.

PRESENTATION

product	REF	Σ
CN (*Pseudomonas*) *Supplement*	81006	10 bottles

One bottle is sufficient to prepare 500 ml of medium

TABLE OF SYMBOLS

IVD	*In Vitro* Diagnostic Medical Device		Do not reuse		Manufacturer	Σ	Contains sufficient for <n> tests		Temperature limitation
REF	Catalogue number		Fragile, handle with care		Use by		Caution, consult accompanying documents	LOT	Batch code

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CE IVD

Rev.0 / 06.04.2005

Lot 15 mar 1

Muller Kauffmann Tetrathionate Broth Base

Basal medium for detection of *Salmonella* spp from foodstuffs and environmental samples, according to ISO 6579.

TYPICAL FORMULA	(g/l)
Enzymatic Digest of Casein	8.6
Meat Extract	4.3
Sodium Chloride	2.6
Calcium Carbonate	38.7
Sodium Thiosulfate anhydrous	30.5*
Ox Bile	4.78
Brilliant Green	0.096
Final pH 8.2 ± 0.2 at 25°C	

*Equivalent to 47.8 g of sodium thiosulfate pentahydrate.

DESCRIPTION

Muller Kauffmann Tetrathionate Broth Base is used with supplements for the selective enrichment of Salmonellae in food and environmental samples. The medium is formulated in compliance with ISO 6579 requirements.

PRINCIPLE

Enzymatic digest of casein and meat extract provide amino acids, nitrogen, carbon, vitamins and minerals. Sodium chloride maintains the osmotic balance of the medium. Calcium carbonate is the buffer. Sodium thiosulfate is included to produce tetrathionate after adding iodine to the medium. Organisms-reducing tetrathionate, such as Salmonella, grow luxuriant while most faecal organisms are inhibited. Bile promotes the growth of Salmonella while inhibiting the contaminant bacterial flora. Brilliant green suppresses primarily Gram-positive bacteria. Novobiocin is added to inhibit Gram-positive bacteria.

PREPARATION

Suspend 89.5 g of powder in 1 liter of deionized or distilled water. Heat with frequent agitation and boil for 5 minutes to completely dissolved the powder. DO NOT AUTOCLAVE. Cool up to 45-50°C. Aseptically, add the contents of 2 tubes (20 ml) of Iodine MKTT Solution (ref. 80009). Also add the contents of 2 vials of Novobiocin MKTT Supplement (ref. 81073) each reconstituted with 5 ml sterile distilled water. Mix well. Dispense into sterile containers.

TECHNIQUE

For pre-enrichment, add the sample to Buffered Peptone Water (ref. 414020) at a ratio of 1:9 (e.g. 25 g per 225 ml), homogenize well and incubate at 37 ± 1°C for 16-20 h.

Transfer 1 ml of the pre-enrichment culture to 10 ml of Muller Kauffmann Tetrathionate Broth. Incubate at 37 ± 1°C for 18-24 h.

INTERPRETATION OF RESULTS

Turbidity indicates microbial growth.

Presumptive identification is achieved by subculture onto XLD Agar (ref. 10056) and a second *Salmonella* agar of choice such as Chromatic™ Salmonella (ref. 11614). Characteristic presumptive *Salmonella* colonies should be confirmed with biochemical and serological tests.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for professional use only and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

1. ISO 6579:2002. Microbiology of food and animal feeding stuffs – Horizontal method for the detection of *Salmonella* spp.
2. DeSmedit J.M., R. Bolderdijk, H. Rappold and D. Lautenschlaeger (1986) Rapid Salmonella detection in food by motility enrichment on a modified semi-solid Rappaport-Vassiliadis Medium. J. Food Prot. 49:510-514.
3. Vassiliadis P., D. Trichopoulos, A. Kalandidi and E. Xirouchaki (1978) Isolation of salmonellae from sewage with a new procedure of enrichment. J. Appl. Bacteriol 44:233-239.
4. Rappaport F., N. Konforti and B Navon (1956) A new enrichment medium for certain salmonellae. J. Clin. Pathol. 9:261-266.

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TECHNICAL SHEET
TS 610239
Rev.3 / 17.02.2015
Page 2 of 2

PRODUCT SPECIFICATIONS

NAME

Muller Kauffmann Tetrathionate Broth Base

PRESENTATION

Dehydrated medium

STORAGE

10-30°C

PACKAGING

Ref.	Content	Packaging
610239	500 g	500 g of powder in plastic bottle
620239	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM

8.2 ± 0.2

USE

Muller Kauffmann Tetrathionate Broth Base is used with supplements for the selective enrichment of Salmonellae in food and environmental samples. The medium is formulated in compliance with ISO 6579 requirements

TECHNIQUE

Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM

Powder medium
Appearance: free-flowing, homogeneous
Colour: pale green
Ready-to-use medium
Appearance: opaque
Colour: very pale green

SHELFLIFE

4 years

QUALITY CONTROL

1. Control of general characteristics, label and print
2. Microbiological control
   Incubation conditions: 18-24 hours at 37 ± 1°C

Inoculum for productivity: ≤100 CFU

Microorganism		Growth	Specification
Salmonella Typhimurium + *Escherichia coli* + *Pseudomonas aeruginosa*	WDCM 00031 WDCM 00013 WDCM 00025	Good	>10 colonies on XLD agar or other medium of choice

Inoculum for selectivity: >10^3 CFU

Microorganism		Growth	Specification
Escherichia coli	WDCM 00013	Partially inhibited	≤100 colonies on TSA
Enterococcus faecalis	WDCM 00009	Partially to completely inhibited	<10 colonies on TSA

TABLE OF SYMBOLS

LOT Batch code	Do not reuse	Manufacturer	Use by	Fragile, handle with care
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Caution, consult instructions for use	

LIOFILCHEM® S.r.l.
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Lot 15 /07 2

ENGLISH

NOVOBIOCIN MKTT Supplement

Selective supplement for the detection of *Salmonella spp.*

DESCRIPTION

NOVOBIOCIN MKTT Supplement is a selective supplement for the detection of *Salmonella spp,* used for enrichment of MULLER KAUFFMANN BROTH BASE cod. 610239 or 620239.

KIT CONTENTS

Each kit contains:

- 10 bottles of NOVOBIOCIN MKTTSupplement freeze-dried
- 1 Instruction sheet

PRINCIPLE OF THE METHOD

Novobiocin is an antibiotic effective against both Gram-negative and Gram-positive bacteria.

COMPOSITION

NOVOBIOCIN MKTT Supplement		
	Contents / bottle	*Contents / l of medium*
Novobiocin	20.0 mg	40.0 mg

PROCEDURE FOR USE

1. Reconstitute the contents of a bottle of NOVOBIOCIN MKTT Supplement aseptically with 5 ml of sterile distilled water. Shake until completely dissolved, avoiding foam formation.
2. Add the entire contents of a bottle (5 ml) aseptically to 500 ml of MULLER KAUFFMANN BROTH BASE cod. 610239 or 620239, boiled, cooled to 45-50°C and added with IODINE MKTT SOLUTION.
3. Mix with care.
4. Distribute into sterile tubes.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical documentation of MULLER KAUFFMANN BROTH BASE cod. 610239 or 620239.

QUALITY CONTROL

1. Control of the appearance: a white freeze-dried product.
2. Microbiological control.

Prepare the tubes using as base MULLER KAUFFMANN BROTH BASE cod. 610239 or 620239 enriched with NOVOBIOCIN MKTT Supplement (1 bottle in 500 ml of medium) and IODINE MKTT SOLUTION. The tubes are seeded with the strains indicated in the microbiological control table.
Incubation conditions: 24 ± 3 h at 37 ± 1 °C

Microbiological control

Control strains		Growth
Salmonella typhimurium	ATCC 14028	Good
Escherichia coli	ATCC 25922	Inhibited
Salmonella seftenberg	ATCC 10384	Good

PRECAUTIONS

The product NOVOBIOCIN MKTT Supplement is classifiable as hazardous under current legislation; it is recommended that the Safety Data Sheet be consulted on its use.
NOVOBIOCIN MKTT Supplement is a selective supplement to be used in a professional environment and must be used in the laboratory by properly trained personnel, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE

Store NOVOBIOCIN MKTT Supplement at 2-8°C in its original packaging. Keep away from sources of heat and avoid excessive changes of temperature. In such conditions NOVOBIOCIN MKTT Supplement maintains its validity until the expiry date indicated on the label. Eliminate without using if there are signs of deterioration.

REFERENCES

- DeSmedt, Bolderdijk, Rappold and Lautenschlaeger. 1986. J. Food Prot. *49*:510.
- Dusch and Altwegg. 1995. J. Clin. Microbiol. *33*:802.
- Aspinall, Hindle and Hutchinson. 1992. Eur. J. Clin. Microbiol. Infect. Dis. *11*:936.

PRESENTATION

Product	REF	Σ
NOVOBIOCIN MKTT Supplement	81073	10 bottles

One bottle is sufficient to prepare 500 ml of medium

TABLE OF SYMBOLS

LOT Batch code	Do not reuse	Manufacturer	Contains sufficient for <n> tests	Temperature limitation
REF Catalogue number	Fragile, handle with care	Use by	Caution, consult accompanying documents	

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Rev.0/ 07.07.2009

Lot 16 1071

CHROMATIC SALMONELLA

Chromogenic selective medium for isolation and differentiation of *Salmonella spp.* (including *S. typhi*).

TYPICAL FORMULA (g/L)

Proteose Peptone	7.0
Yeast Extract	3.0
Meat Extract	1.0
Sodium Chloride	5.0
Chromogenic mix	3.7
Agar	15.0
Final pH 7.5± 0.2	

DESCRIPTION

Chromogenic selective medium for isolation and differentiation of *Salmonella spp.*, including *S. typhi*, directly from clinical and industrial samples.

PRINCIPLE

Protease Peptone and meat extract provide amino acids and proteins. Yeast extract is a source of amino acids and vitamins of group B. Sodium chloride maintains the osmotic balance of the medium. The special chromogenic mix allows to differentiate *Salmonella spp.*, including *S. typhi*, from other coliform and non-coliform bacteria, on the basis of the colour and the morphology of the colonies. Beside the chromogenic mix inhibits Gram-positive microorganisms. Tween 20 increases microbial growth.

PREPARATION

Suspend 34.7 g of powder in 1 L of sterile distilled or deionized water. Add 3 mL of Tween 20 Supplement (cod. 80032). Heat until completely dissolved. Sterilize at 100°C for 5 minutes. Dispense in petri dishes.

TECHNIQUE

Inoculate the plates by streaking the specimen onto the surface of the medium using a sterile loop.
Incubate at 35+/-2°C for 18-24 hours.

INTERPRETATION OF RESULTS

Salmonella typhimurium and other Salmonella species will appear as light mauve to mauve – colored colonies. *Citrobacter* and other coliforms will appear as light blue- green to blue- green colored colonies. Some organisms that do not hydrolyze any of the chromgenic compounds may appear as colorless colonies. Final identification must be performed by biochemical and/or serological tests.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed until the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared media at 2-8 °C.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. The product is designed for *In vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

1. Bopp, Brenner, Wells and Strockbine. 1999. In Murray, Baron, Pfaller, Tenover and Yolken (ed.). Manual of clinical microbiology, 7th ed American Society for Microbiology, Washington, DC.
2. D'Aoust, Mauer and Bailey. 2001. In Doyle, Beuchat, and Montville (ed.) Food microbiology: fundamentals and frontiers, 2nd ed. American Society for Microbiology, Washington, DC.

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TECHNICAL SHEET
TS610611
Rev. 3 of 14.12.2009
Page 2 of 2

PRODUCT SPECIFICATIONS

NAME
CHROMATIC SALMONELLA

PRESENTATION
Dehydrated culture medium

STORAGE
10-30 °C

PACKAGING

Code	Content	Packaging
610611	500 g	500 g of powder in plastic bottle
620611	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
7.5 ± 0.2

USE
Chromogenic selective medium for isolation and differentiation of *Salmonella spp.*, including *S. typhi*, directly from clinical and industrial samples.

TECHNIQUE
Refer to technical sheet of the product.

APPEARANCE of the MEDIUM
Dehydrated medium
Appearance: free-flowing, homogeneous.
Colour: beige
Prepared medium
Appearance: clear
Colour: beige

SHELFLIFE
2 years

QUALITY CONTROL
1. Control of general characteristics, label and print
2. Microbiological control

Inoculum for productivity: 10-100 UFC/ml
Inoculum for selectivity: 10^4-10^5 UFC/ml
Inoculum for specificity: ≤ 10^4 UFC/ml
Incubation conditions: 18-24 hours at 35+/-2°C

Microorganisms		Growth	Colour
Escherichia coli	ATCC 25922	Good	Colorless
Salmonella enterica subspecies arizonae	ATCC 13314	Good	Mauve
Salmonella typhimurium	ATCC 14820	Good	Mauve
Proteus mirabilis	ATCC 25933	Good	Colorless
Pseudomonas aeruginosa	ATCC 27853	Good	Colorless
Staphylococcus aureus	ATCC 25923	Inhibited	

TABLE OF SYMBOLS

LOT Batch code	Temperature limitation	Manufacturer	Contains sufficient for <n> tests
REF Catalogue number	Keep away from heat	Use by	Caution, consult accompanying documents

CE IVD

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Lot 16/02

ENGLISH

Tween 20 Supplement

Supplement for the enrichment of culture media.

DESCRIPTION

Tween 20 Supplement is a nonionic surfactant derived from sorbitan ester, used for the preparation of TAT Broth Base (ref. 610093, 620093), Chromatic Salmonella (ref. 610611, 620611) and other culture media for which the addition of polysorbate 20 is recommended.

KIT CONTENTS

Each kit contains:

- Bottles of Tween 20 Supplement
- 1 instructions sheet

PRINCIPLE OF THE METHOD

Polysorbate 20 neutralizes preservatives in cosmetics or pharmaceutical products, allowing bacteria to grow. It has also shown a growth-promoting effect on certain microorganisms.

COMPOSITION

	Content / bottle
Polysorbate 20	50 ml

PROCEDURE FOR USE

1. Add Tween 20 Supplement to the basal medium to obtain the correct final concentration.
2. Mix with care.
3. Sterilize in autoclave according to relevant instructions.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical sheet of the medium being prepared.

QUALITY CONTROL

1. Visual inspection: dense, oily, yellowish liquid.
2. Microbiological control.
   Prepare TAT Broth Base per label directions. Inoculate with the microbial strains indicated below and incubate at 35 ± 2°C for 18-48 h.

Control strains		Growth
Bacillus subtilis	ATCC® 6633	Good
Pseudomonas aeruginosa	ATCC® 27853	Good
Staphylococcus aureus	ATCC® 25923	Good

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for professional use only and must be used by properly trained operators.

STORAGE AND TRANSPORT CONDITIONS

2-8°C away from light, until the expiry date on the label. However, our stability studies have shown that the storage or transport at 18-25°C for 4 days, or at 35-39°C for 48 hours, do not alter in any way the performance of the product. Eliminate if signs of deterioration or contamination are evident.

REFERENCES

- The United States Pharmacopeial Convention (1995) The United States pharmacopeia, 23rd ed. Microbial limits tests, p. 1681-1686. The United States Pharmacopeial Convention Inc., Rockville, MD.
- Orth, D. S. (1993) Handbook of cosmetic microbiology. Marcel Dekker, Inc., New York, N.Y.
- Food and Drug Administration (1969) Procedure for the examination of topical drugs and cosmetics. FDA, Rockville, MD.

PRESENTATION

Product	Ref.	Content
Tween 20 Supplement	80032	2 x 50 ml bottles
Tween 20 Supplement	80432	4 x 50 ml bottles

TABLE OF SYMBOLS

LOT Batch code	Do not reuse	Manufacturer	Contains sufficient for <n> tests	Temperature limitation
REF Catalogue number	Fragile, handle with care	Use by	Caution, consult accompanying documents	

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Rev.2 / 18.01.2016

Lot 17 1071

UREA AGAR BASE

Medium for urease test, recommended by ISO 6785 and IDF 93.

TYPICAL FORMULA	(g/l)
Peptone	1.0
Glucose	1.0
Sodium Chloride	5.0
Monopotassium Phosphate	2.0
Phenol Red	0.012
Agar	15.0

Final pH 6.8 ± 0.2 at 25°C

DESCRIPTION

UREA AGAR BASE is a medium used for urease test, recommended by ISO 6785 and IDF 93.

PRINCIPLE

Peptone provides nitrogen, carbon, and amino acids required for organism growth. Glucose is an energy source. Sodium chloride maintains the osmotic balance of the medium. Monopotassium phosphate is the buffer. Phenol red is the pH indicator. Agar is the solidifying agent. Urea is added to the medium as substrate for urease enzyme. The splitting of urea by urease causes the release of ammonia, increasing pH of the medium to the alkaline side. This is indicated by a color change of the pH indicator.

PREPARATION

Suspend 24.0 g of powder in 950 ml of distilled or deionized water. Heat until completely dissolved. Autoclave at 121°C for 15 minutes. Cool to 45-50°C. Aseptically add 50 ml of Urea 40% Supplement (ref. 80292). Disperse into sterile tubes and allow to solidify in a slanting position.

TECHNIQUE

Use a heavy inoculum of the growth from a pure 18-24 hours culture. Inoculate by streaking back and forth over the entire slant surface. Do not stab the butt because it serves as color control. Incubate the tubes with the caps loosened at 36 ± 1°C for 6-24 hours. Longer period of incubation may not be necessary.

INTERPRETATION OF RESULTS

The production of urease is a positive reaction, indicated by an intense red or pink color on the slant.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until sings of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous, it is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for *in vitro* diagnostic use and must be used by properly trained operators only.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

1. Christensen, W.B. (1946) J. Bact. 52:461-466.
2. Maslen, L.G.C. (1952) Brit. Med. J. 2:545-546.
3. ISO 6785:2001. IDF 93:2001.

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CE IVD

PRODUCT SPECIFICATIONS

NAME
UREA AGAR BASE

PRESENTATION
Dehydrated medium

STORAGE
10-30°C

PACKAGE

Ref.	Content	Packaging
610107	500 g	500 g of powder in plastic bottle
620107	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
6.8 ± 0.2

USE
UREA AGAR BASE is a medium used for urease test, recommended by ISO 6785 and IDF 93

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Dehydrated medium
Appearance: free-flowing, homogeneous
Colour: orange
Prepared medium
Appearance: slightly opalescent
Colour: reddish-orange

SHELFLIFE
4 years

QUALITY CONTROL
1. Control of general characteristics, label and print
2. Microbiological control
   Inoculum for productivity: 10-100 CFU/ml
   Incubation conditions: 6-24 h at 36 ± 1°C

Microorganism	ATCC®	Urease Production
Proteus vulgaris	13315	+
Escherichia coli	25922	-

TABLE OF SYMBOLS

LOT Batch code	IVD *In vitro* Diagnostic Medical Device	Manufacturer	Use by	Fragile, handle with care
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Consult instructions for use	Keep away from heat sources

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CE IVD

ENGLISH

Lot 17 / 1 of 2

UREA 40% *Supplement*

Supplement for the detection of urease activity of bacteria

DESCRIPTION

UREA 40% *Supplement* is a supplement per la detection of urease activity of bacteria and it is made of a 40% urea aqueous solution for microbiological use. UREA 40% *Supplement* is used for the enrichment of medium Urea Agar Base cod. 610107 or 620107.

KIT CONTENTS

Each kit contains:

- 10 bottles each containing 5 ml of UREA 40% *Supplement*.
- 1 Instruction sheet

PRINCIPLE OF THE METHOD

The utilization of urea by microorganisms provided of urease causes the alkalinization of medium and consequently the colour turning of indicator red phenol from amber to pink colour.

COMPOSITION

UREA 40% *Supplement*		
	Contents / bottle	*Contents / l of medium*
Urea	2.0 g	20.0 g

PROCEDURE FOR USE

1. Aseptically take the content of one bottle of UREA 40% *Supplement* and add it to 95 ml of Urea Agar Base cod. 610107 or 620107 autoclaved and cooled to 45-50 °C.
2. Mix with care avoiding the formation of foam.
3. Distribute into the final containers.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical documentation for medium Urea Agar Base cod. 610107 or 620107.

QUALITY CONTROL

1. Control of the appearance: clear, colourless solution.
2. Microbiological control:

prepare the plastes using as base the medium Urea Agar Base cod. 610107 or 620107 added with UREA 40% *Supplement*.
The plates are inoculated with the strains indicated in the table of microbiological control.
Conditions of incubation: 6-24 h at 36 ± 1 °C.
Microbiological control:

Control strains		Ureasic activity
Proteus vulgaris	ATCC 13315	Positive / pink medium
Escherichia coli	ATCC 25922	Negative / no change in colour

PRECAUTIONS

The product UREA 40% *Supplement* is classified as irritant under current legislation;; it is recommended that the Safety Data Sheet be consulted on its correct use.
UREA 40% *Supplement* is a supplement to be used only for *in vitro* diagnostic use. It is intended for use in a professional environment and must be used in the laboratory by properly trained personnel, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE

Store *UREA 40% Supplement* at 2-8°C in its original packaging. In such conditions *UREA 40% Supplement* maintains its validity until the expiry date indicated on the label. Non utilizzare oltre questa data. Eliminate without using if there are signs of deterioration.

REFERENCES

- Christensen, W.B. (1946). J. Bact. **52**: 461-466.
- Maslen, L.G.C. (1952). Brit. Med. J. **2**: 545-546.

PRESENTATION

product	REF	Σ
UREA 40% *Supplement*	**80292**	**10 bottles**

One bottle is sufficient to prepare 100 ml of medium

TABLE OF SYMBOLS

IVD *In Vitro* Diagnostic Medical Device	Do not reuse	Manufacturer	Contains sufficient for <n> tests	Temperature limitation
REF Catalogue number	Fragile, handle with care	Use by	Caution, consult accompanying documents	LOT Batch code

LIOFILCHEM Bacteriology Products
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CE IVD

Rev.0 / 06.04.2005

Lot 18 2071

CHROMATIC™ MRSA AGAR BASE

Chromogenic selective medium for the isolation of methicillin-resistant *Staphylococcus aureus*.

TYPICAL FORMULA

	g/l
Peptone and Yeast Extract	30.0
Sodium Chloride	10.0
Sodium Phosphate Dibasic	2.5
Selective and Matting Agents	16.5
Agar	15.0

Final pH 6.9 ± 0.2

DESCRIPTION

CHROMATIC™ MRSA AGAR BASE is a chromogenic selective medium used for the isolation of methicillin/oxacillin resistant *S. aureus*.

PRINCIPLE

Peptone and yeast extract supply amino acids, nitrogen, carbon, minerals, vitamins and other nutrients which support the growth of microorganism. Sodium chloride enhances growth of *S. aureus*. Sodium phosphate is the buffer. Selective agents inhibit the growth of yeast and the most of Gram-negative and Gram-positive bacteria other than methicillin-resistant staphylococci. Matting agents enhance colonies contrast on the medium. Agar is the solidifying agent.

The medium must be supplied with Chromatic™ MRSA Supplement (ref. 81078). This supplement consists of a chromogenic and antibiotic mix that allows the optimal recovery of MRSA and the identification based on a mauve or orange-mauve coloration of the colonies.

PREPARATION

Suspend 74.0 g of powder in one liter of deionized or distilled water. Bring to boil and shake until completely dissolved. Sterilize at 121°C for 15 minutes. Cool up to 45-50°C. Aseptically, add 10 ml (2 vials) previously reconstituted Chromatic™ MRSA Supplement (ref. 81078). Pour in Petri dishes.

TECHNIQUE

Inoculate the plates by streaking directly the specimen onto the agar surface. Incubate aerobically at 35 ± 2°C for 18-24 hours.

INTERPRETATION OF RESULTS

S. aureus produces mauve to orange-mauve colonies. Most gram-positive bacteria, if not inhibited, will produce white colonies. Gram-negative organisms and yeast are partially to completely suppressed.

STORAGE AND TRANSPORT CONDITIONS

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until sings of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous; it is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for *in vitro* diagnostic use only and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

1. Evaluation of CHROMagar Staph aureus, a new chromogenic medium, for isolation and presumptive identification of Staphylococcus aureus from human clinical specimens. Gaillot O. et al. 2001. Journal of Clinical Microbiology, 38 : 1587-1591.
2. Dépistage nasal de Staphylococcus aureus. Nécessité de standardiser les protocoles. Laudat P. et al. 2000 Poster 343/P2 presented at RICAI in Paris (France).

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CE IVD

PRODUCT SPECIFICATIONS

NAME

CHROMATIC™ MRSA AGAR BASE

PRESENTATION

Dehydrated medium

STORAGE

10-30°C

PACKAGING

Ref.	Content	Packaging
610615	500 g	500 g of powder in plastic bottle
620615	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM

6.9 ± 0.2

USE

CHROMATIC™ MRSA AGAR BASE is a chromogenic selective medium used for the isolation of methicillin/oxacillin resistant *S. aureus*

TECHNIQUE

Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM

Powder medium
Appearance: free-flowing, homogeneous
Colour: beige
Ready-to-use medium
Appearance: opaque
Colour: whitish

SHELFLIFE

2 years

QUALITY CONTROL

1. Control of general characteristics, label and print
2. Sterility control
   7 days at 22 ± 1°C, in aerobiosis
   7 days at 36 ± 1°C, in aerobiosis
3. Microbiological control
   Inoculum for productivity: 10-100 CFU/ml
   Inoculum for selectivity: 10^4-10^5 CFU/ml
   Inoculum for specificity: ≤10^4 CFU/ml
   Incubation Conditions: 18-24 h at 35 ± 2°C, in aerobiosis

Microorganism		Growth	Colony colour
Staphylococcus aureus (MRSA)	ATCC® 43300	Good	Mauve
Staphylococcus aureus (MSSA)	ATCC® 25923	Inhibited	—
Staphylococcus aureus (MSSA)	ATCC® 6538	Inhibited	—
Escherichia coli	ATCC® 25922	Inhibited	—
Proteus mirabilis	ATCC® 25933	Inhibited	—
Pseudomonas aeruginosa	ATCC® 27853	Inhibited	—

TABLE OF SYMBOLS

LOT Batch code	IVD *In vitro* Diagnostic Medical Device	Manufacturer	Use by	Fragile, handle with care
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Caution, consult instructions for use	Do not reuse

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CE IVD

Lot 18
p07 2

ENGLISH

Chromatic™ MRSA Supplement

Selective supplement for the isolation of methicillin-resistant *Staphylococcus aureus*.

DESCRIPTION

Chromatic™ MRSA Supplement is a selective lyophilized supplement used for the preparation of Chromatic™ MRSA Agar Base (Ref. 610615, 620615). The complete medium is used for the isolation of methicillin/oxacillin resistant *Staphylococcus aureus*.

KIT CONTENTS

Each kit contains:

- 10 vials of lyophilized Chromatic™ MRSA Supplement
- 1 instructions sheet

PRINCIPLE OF THE METHOD

The chromogenic and antibiotic mix allows the optimal recovery of MRSA and the identification based on a mauve or orange-mauve coloration of the colonies.

COMPOSITION

	Content / vial	Content / liter of medium
Miscela Cromogenica ed Antibiotica	0.4 g	0.8 g

PROCEDURE FOR USE

1. Reconstitute aseptically the content of one vial of Chromatic™ MRSA Supplement with 5 ml of sterile distilled water
2. Mix to complete dissolution and add aseptically to 500 ml of Chromatic™ MRSA Agar Base (Ref. 610615, 620615) autoclaved and cooled at 45-50°C.
3. Mix with care and pour into Petri dishes.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical sheet of the medium being prepared.

QUALITY CONTROL

1. Visual inspection: whitish button, clear pinkish solution, once reconstituted.
2. Microbiological control.
   Prepare the medium per label directions. Inoculate the plates with the microbial strains indicated below and incubate at at 35±2°C for 18-24 h.

Control strains		Growth	Colony color
Staphylococcus aureus (MRSA)	ATCC® 43300	Good	Mauve
Staphylococcus aureus (MSSA)	ATCC® 25923	Inhibited	---

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. it is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *in vitro* Diagnostic Use only and must be used by properly trained operators.

STORAGE AND TRANSPORT CONDITIONS

2-8°C away from light, until the expiry date on the label. However, our stability studies have shown that the storage or transport at 18-25°C for 4 days, or at 35-39°C for 48 hours, do not alter in any way the performance of the product. Eliminate if signs of deterioration or contamination are evident.

REFERENCES

- Evaluation of CHROMagar Staph aureus, a new chromogenic medium, for isolation and presumptive identification of *Staphylococcus aureus* from human clinical specimens. Gaillot O. *et al.* 2001. Journal of Clinical Microbiology, 38 : 1587-1591.
- Dépistage nasal de *Staphylococcus aureus*. Nécessité de standardiser les protocoles. Laudat P. *et al.* 2000 Poster 343/P2 presented at RICAI in Paris (France).

PRESENTATION

Product	Ref.	Content
Chromatic™ MRSA Supplement	81078	10 vials

TABLE OF SYMBOLS

LOT Batch code	IVD *In vitro* Diagnostic Medical Device	Manufacturer	Contains sufficient for <n> tests	Temperature limitation
REF Catalogue number	Fragile, handle with care	Use by	Caution, consult accompanying documents	Do not reuse

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CE IVD

Rev.3 / 06.05.2014

Lot 19 1027

Yersinia Selective Agar Base

Differential and selective medium for the isolation of Y. *enterocolitica* from clinical and nonclinical specimens, according to ISO 10273.

TYPICAL FORMULA	(g/l)
Enzymatic Digest of Gelatin	17.0
Enzymatic Digest of Casein and Animal Tissues	3.0
Yeast Extract	2.0
Sodium Chloride	1.0
Sodium Pyruvate	2.0
Magnesium Sulfate	0.01
Mannitol	20.0
Sodium Deoxycholate	0.5
Crystal Violet	0.001
Neutral Red	0.03
Agar	14.0

Final pH 7.4 ± 0.2 at 25°C

DESCRIPTION

Yersinia Selective Agar Base is a medium used with supplements for the selective isolation and differentiation of *Yersinia enterocolitica*

The complete medium (CIN agar) is recommended by ISO 10273 for the examination of food and animal feed stuffs as well as environmental samples in the area of food production and food handling.

PRINCIPLE

Enzymatic digest of gelatin and enzymatic digest of casein and animal tissues provide amino acids, nitrogen, carbon, minerals, vitamins and other nutrients which support the growth of microorganisms. Yeast extract is a source of vitamins, particularly of B-group. Sodium chloride maintains the osmotic balance of the medium. Sodium pyruvate and magnesium sulfate stimulate organisms growth. Mannitol is the carbohydrate which allows to differentiate between mannitol fermenting and non-fermenting bacteria. Sodium deoxycholate and crystal violet inhibit Gram-positive bacteria. Neutral red is the pH indicator. Agar is the solidifying agent.

Supplementation with Yersinia Supplement (ref. 81039), containing cefsulodin, irgasan (triclosan) and novobiocin, inhibits the growth of most Gram-negative enteric bacteria.

PREPARATION

Suspend 59.6 g of powder in 1 liter of deionized or distilled water. Bring to boil and shake until completely dissolved. Sterilize at 121°C for 15 minutes. Cool up to 45-50°C. Aseptically, add the contents of 2 vials (6 ml) of Yersinia Supplement reconstituted as directed in the instructions for use that accompany the product. Pour in Petri dishes.

TECHNIQUE

Inoculate the specimen onto the medium by either direct plating or pour plating (*). Incubate aerobically at 30 ± 1°C for 18-24 h.

(*) The ISO method for the detection of presumptive pathogenic *Yersinia enterocolitica* recommends to first perform enrichment in Peptone, Sorbitol and Bile Salts (PSB) Broth for 48-72 hours at 22-25°C with agitation, or 5 days without agitation.

INTERPRETATION OF RESULTS

Organisms capable of fermenting mannitol cause a localized pH reduction, forming colonies with red centre surrounded by a transparent border (characteristic "bull's-eye" colony). Organisms that do not ferment mannitol form colorless, translucent colonies. Some strains of *Serratia*, *Citrobacter* and *Enterobacter* may give a colonial morphology resembling *Yersinia enterocolitica*. Final identification should be confirmed by standard biochemical tests.

STORAGE AND TRANSPORT CONDITIONS

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until sings of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for *in vitro* diagnostic use only and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

- EN ISO 11133:2014. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
- ISO 10273:2003. Microbiology of food and animal feeding stuffs – Horizontal method for the detection of presumptive pathogenic *Yersinia enterocolitica*.
- Schieman, D.A. (1979) Synthesis of a selective agar medium for *Yersinia enterocolitica*. Can. J. Microbiol. 25:1298-1304.
- Schieman, D.A. (1980) *Yersinia enterocolitica*: Observation on some growth characteristics and response to selective agents. Can. J. Microbiol. 43:14-27.
- Devenish, J.A., and D.A. Schieman (1981) An abbreviated scheme for identification of *Yersinia enterocolitica* isolated from food enrichments on CIN (cefsulodin-irgasan-novobiocin) agar. Can. J. Microbiol. 27:937-941.

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CE IVD

PRODUCT SPECIFICATIONS

NAME
Yersinia Selective Agar Base

PRESENTATION
Dehydrated medium

STORAGE
10-30°C

PACKAGING

Ref.	Content	Packaging
610111	500 g	500 g of powder in plastic bottle
620111	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
7.4 ± 0.2

USE
Yersinia Selective Agar Base is a differential and selective medium used with supplements for the isolation of *Yersinia enterocolitica* from clinical specimens and other types of samples, according to ISO 10273

TECHNIQUE
Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM
Powder medium
Appearance: free-flowing, homogeneous
Colour: pink-beige to beige
Ready-to-use medium
Appearance: slightly opalescent
Colour: reddish-orange

SHELFLIFE
4 years

QUALITY CONTROL

1. Control of general characteristics, label and print
2. Microbiological control
   Inoculum for productivity: 50-100 CFU
   Inoculum for selectivity: 10^4-10^6 CFU
   Incubation Conditions: 18-24 h at 30 ± 1°C, in aerobiosis

Microorganism		Growth	Colony Appearance
Yersinia enterocolitica	WDCM 00038	Good	Colonies with red center
Escherichia coli	WDCM 00012	Partially to totally inhibited	—
Staphylococcus aureus	WDCM 00034	Inhibited	—

TABLE OF SYMBOLS

LOT Batch code	IVD *In vitro* Diagnostic Medical Device	Manufacturer	Use by	Fragile, handle with care
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests	Caution, consult instructions for use	Do not reuse

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CE IVD

Lot 19
prod 2

ENGLISH

Yersinia Supplement

Selective supplement for the isolation of *Yersinia enterocolitica*.

DESCRIPTION

Yersinia Supplement is a selective lyophilized supplement used for the preparation of Yersinia Selective Agar Base (ref. 610111, 620111). The complete medium is used for the isolation of *Yersinia enterocolitica* from clinical and nonclinical specimens.

KIT CONTENTS

Each kit contains:

- 10 vials of freeze-dried Yersinia Supplement
- 1 instruction sheet

PRINCIPLE OF THE METHOD

Yersinia Supplement is an antibiotic mix that inhibits the growth of most Gram-negative enteric bacteria.

COMPOSITION

Antibiotic	Content / vial	Content / liter of medium
Cefsulodin	7.5 mg	15.0 mg
Irgasan	2.0 mg	4.0 mg
Novobiocin	1.25 mg	2.5 mg

PROCEDURE FOR USE

1. Aseptically reconstitute the content of one vial of Yersinia Supplement with 2 ml sterile distilled water and 1 ml ethanol(*).
2. Mix to complete dissolution and add to 500 ml Yersinia Selective Agar Base, autoclaved and cooled to 45-50°C.
3. Mix well and dispense in Petri dishes.

(*) Ethanol 50% purity minimum.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical documentation of the medium being prepared.

QUALITY CONTROL

1. Control of the appearance: freeze-dried white in colour.
2. Microbiological control.
   Prepare the medium per label directions. Inoculate the plates with the strains indicated below and incubate at 30 ± 1°C for 18-24 hours.

Control strains		Growth
Yersinia enterocolitica	WDCM 00038	Good
Escherichia coli	WDCM 00012	Partially to totally inhibited
Staphylococcus aureus	WDCM 00034	Inhibited

PRECAUTIONS

Yersinia Supplement is classifiable as hazardous under current legislation; it is recommended that the Safety Data Sheet be consulted on its use. The product is a selective supplement to be used only for *in vitro* diagnostic use. It is intended for use in a professional environment and must be used in the laboratory by properly trained personnel, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE

2-8°C in its original packaging. Keep away from sources of heat and avoid excessive changes of temperature. Use until the expiry date indicated on the label. Eliminate without using if there are signs of deterioration. Once reconstituted , the product can be stored for a maximum duration of 30 days at -20°C, shielded from light.

REFERENCES

- EN ISO 11133:2014. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
- ISO 10273:2003. Microbiology of food and animal feeding stuffs – Horizontal method for the detection of presumptive pathogenic *Yersinia enterocolitica*.
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- Devenish, J.A., and D.A. Schieman (1981) An abbreviated scheme for identification of *Yersinia enterocolitica* isolated from food enrichments on CIN (cefsulodin-irgasan-novobiocin) agar. Can. J. Microbiol. 27:937-941.

PRESENTATION

Product	Ref.	Contents
Yersinia Supplement	81039	10 vials

One vial is sufficient to prepare 500 ml of medium.

TABLE OF SYMBOLS

IVD	*In Vitro* Diagnostic Medical Device		Do not reuse		Manufacturer		Contains sufficient for <n> tests		Temperature limitation
REF	Catalogue number		Fragile, handle with care		Use by		Caution, consult accompanying documents	LOT	Batch code

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